



STATE OF ILLINOIS

INSTITUTE OF NATURAL RESOURCES

# PETROLEUM INDUSTRY IN ILLINOIS, 1977

## Part I. Oil and Gas Developments

Jacob Van Den Berg

## Part II. Waterflood Operations

T. F. Lawry

ILLINOIS STATE GEOLOGICAL SURVEY

1979

ILLINOIS PETROLEUM 115

URBANA, IL 61801



ILLINOIS STATE GEOLOGICAL SURVEY



3 3051 00004 9480

## CONTENTS

Abstract	1	Gas production	7
		Underground storage of liquefied petroleum gas	7
Part I. Oil and Gas Developments		Underground storage of natural gas	7
Oil production and value	2	Surface storage of liquefied natural gas	7
1977 drilling	2		
Discoveries	3	Part II. Waterflood Operations	
Exploration	3	Summary of secondary recovery operations	73
Fields revived and abandoned	5	Explanation of tables	73
Fields consolidated	5	Use of fresh water	74
Maps of oil and gas fields	5	Tertiary recovery	74
Geologic column	5	Map of oil fields	74
Crude oil reserves	5	Conclusions	74
Productive acreage	7	Abbreviations	74

## TABLES

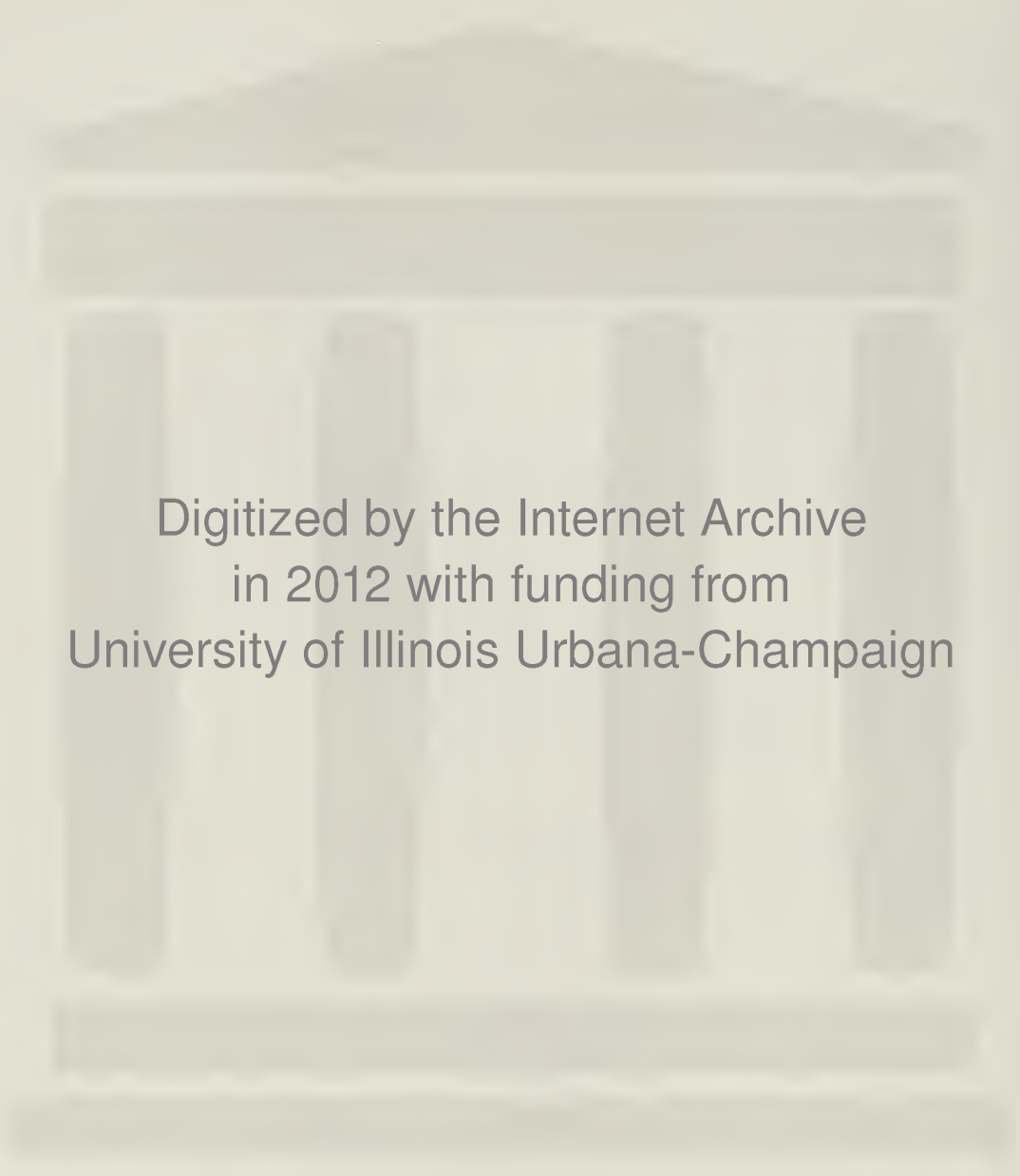
1A. Summary of oil and gas drilling activity and oil production in 1977	9
1B. Summary of underground natural gas storage drilling activity in 1977	10
2. Discovery wells of four new fields in 1977	10
3. Discovery wells of 18 extensions to fields in 1977	11
4. Discovery wells of 29 new pay zones in fields in 1977	12
5. Selected unsuccessful deep tests in 1977	13
6. Underground storage facilities for liquefied petroleum gases in Illinois, January 1, 1978	13
7. Active underground natural gas storage projects in Illinois, January 1, 1978	14
8. Illinois oil field statistics, 1977	16
9. Illinois gas field statistics, 1977	66
10. Project numbers by county and summary of waterflood projects in 1977	75
11. Waterflood operations in Illinois, 1977	76
12. Illinois waterfloods for 1977 by counties	130
13. Illinois oil fields having active waterfloods during 1977	131
14. Summary of waterflood statistics, 1949-1977	134

## FIGURES

1. Major tectonic features of Illinois and their relations to significant holes drilled during 1977	4
2. Generalized geologic column of southern Illinois	6
3. Oil and gas fields in Illinois	135

## ACKNOWLEDGMENTS

The cooperation of many individuals and companies in the oil and gas industry make this report possible. We appreciate their cooperation.



Digitized by the Internet Archive  
in 2012 with funding from  
University of Illinois Urbana-Champaign

<http://archive.org/details/petroleumindustr115illi>



# PETROLEUM INDUSTRY IN ILLINOIS, 1977

JACOB VAN DEN BERG and T. F. LAWRY

## ABSTRACT

Illinois produced 25,608,113 barrels of crude oil in 1977, a decrease of 2.5 percent from 1976. The value of this crude oil is estimated to be somewhat in excess of \$300 million.

The number of new holes drilled to test for oil and gas was 1,036, a decrease of 17.6 percent from 1976. From these tests, 585 oil wells, 20 gas wells, and 431 dry holes resulted. In addition, 59 former dry holes were reworked, or deepened, and recompleted as producers (57 oil, 2 gas), and 20 former producers were reentered and recompleted as producers in new pay zones (19 oil, 1 gas). In oil and gas exploration and development, total footage drilled in 1977, including service wells and structure tests, was 3,114,443, a decrease of 5.6 percent from 1976.

Of the 1,036 new tests for oil and gas, 159 or 15.3 percent, were half a mile or more from production (wildcats); 22 were completed as producers, a success ratio of 13.8 percent. Fifty of the wildcats were more than 1½ miles from production (wildcat fars); 4 wildcat fars were completed as producers, a success ratio of 8.0 percent.

In 1977, 167 service wells (water input, salt water disposal, etc.) were reported, a decrease of 51.0 percent from 1976. Of these, 68 were newly drilled wells, and 99 were old wells, mostly former producers, converted to service wells.

Three oil fields, 1 gas field, 18 extensions to fields, and 29 new pay zones in existing fields were discovered in 1977.

Five new waterflood projects were reported by their respective operators, and 82 older projects have been added to the report as the result of field studies conducted over several years. Most of the older waterfloods are in areas adjacent to older or contemporary waterfloods. Thirty-five waterfloods were abandoned in 1977. New projects increased the area subject to fluid injection by 5,760 pay acres. Waterflood acreage is 52.0 percent of the total pay area in Illinois.

Secondary recovery production was estimated at 15,221,200 barrels of crude oil. Waterfloods accounted for 15,046,800 barrels, or 58.7 percent of the state total, and pressure maintenance projects reported 174,000 barrels, or 0.7 percent of the state total.

## Part I. Oil and Gas Developments

Jacob Van Den Berg

### OIL PRODUCTION AND VALUE

Illinois oil fields produced 25,608,113 barrels of crude oil in 1977. Production decreased 2.5 percent, or 664,038 barrels less than in 1976.

Table 1A lists, by counties, the number of holes drilled, the footage drilled, and the oil production in 1977. Holes drilled are classified as tests for oil and gas, service wells, and structure tests. The oil production and other data for each of the oil fields in Illinois are shown in Table 8.

Crude oil production figures by fields are received from one source, the production figure for the state as a whole from another. The latter source is believed more accurate insofar as the state's production as a whole is concerned. The discrepancy in figures from the two sources is accounted for by the 579,965 barrels of crude oil for which the field and county assignments are unknown (tables 1A and 8).

Seven counties had more than one million barrels of oil production each in 1977. Their combined production accounted for 66.8 percent of the total oil production of Illinois; they are:

County	1977 production (bbl)	Percentage of state's total
Wayne	3,764,381	14.7
Lawrence	3,087,467	12.1
White	2,950,843	11.5
Marion	2,701,034	10.5
Fayette	1,996,555	7.8
Crawford	1,569,745	6.1
Clay	1,047,124	4.1
Total	17,117,149	66.8

The oil fields in Illinois that produced more than 250,000 barrels of oil each in 1977 accounted for 69.9 percent of the state's total production; they are:

Field*	1977 production (bbl)	Percentage of state's total
Southeastern Illinois oil field†	5,027,371	19.6
Clay City C	3,474,085	13.6
Salem C	2,582,901	10.1
Louden	2,032,070	7.9
New Harmony C	1,296,446	5.1
Keenville	706,989	2.8
Phillipstown C	590,298	2.3
Sailor Springs C	576,207	2.2
Roland C	436,163	1.7
Johnsonville C	345,302	1.3
Johnsonville S	299,807	1.2
Dale C	284,400	1.1
Storms C	253,595	1.0
Total	17,905,634	69.9

\*C=Consolidated

†Comprising Allendale and Main Consolidated fields, and Clark County and Lawrence County Divisions in table 8.

Because of the multipricing structure in effect in 1977, the value of Illinois crude oil produced during the year is difficult to estimate, but it is probably somewhat in excess of \$300 million.

### 1977 DRILLING

In 1977, 1,275 wells were completed in connection with oil and gas exploration and development (table 1A), a decrease of 23.0 percent from 1976. These wells include: new holes drilled as oil and gas tests; former dry holes reworked, or deepened, and recompleted as producers; former producers reworked, or deepened, and recompleted as producers in new pay zones; new holes drilled as service

wells and old holes converted to service wells; and structure tests. In addition, the gas industry reported 137 wells in 1977 (table 1B). They include 86 structure tests, 46 injection and withdrawal wells, and 5 service wells.

In testing for oil and gas, 1,036 new holes were drilled in 1977, a decrease of 17.6 percent from 1976. Wells in waterflood projects are included. These tests resulted in 585 oil wells, 20 gas wells, and 431 dry holes. In addition, 59 former dry holes were reworked, or deepened, and recompleted as producers (57 oil, 2 gas), and 20 former producers were reentered and recompleted as producers in new pay zones (19 oil, 1 gas). One hundred sixty-seven service wells (water input, salt water disposal, etc.) were reported in 1977, a decrease of 51.0 percent; 68 new wells were drilled and 99 old wells, mostly former producers, were converted to service wells. Thirteen structure tests were drilled in connection with oil exploration.

Of the 102 counties in Illinois, 46 had new holes drilled as oil and gas tests in 1977. Nine counties accounted for 71.9 percent of the total number of tests: Wayne (209), Crawford (129), White (113), Clay (78), Wabash (49), Clark (46), Edwards (45), Lawrence (43), Effingham (33).

Total footage drilled in 1977 in connection with oil and gas exploration and development, including service wells and structure tests, was 3,114,443, a decrease of 5.6 percent from 1976. For the 1,036 new holes drilled as oil and gas tests, the total footage was 2,974,206, an average of 2,871 feet per well. In 1976 it was 2,412 feet per well, or 2,665 feet per well if the large number of shallow wells drilled in Crawford County in connection with a tertiary recovery project is excluded. Total footage drilled in connection with underground storage of natural gas was 212,236.

### Discoveries

Three oil fields, one gas field, 18 extensions to fields, and 29 new pay zones in fields were discovered in Illinois in 1977 (fig. 1; tables 2, 3, and 4). One of the new oil fields produces from the Mississippian, one from the Devonian, and one from the Silurian. The new gas well produces from the Silurian. Of the 29 new pay zones, 28 are of Mississippian age and one is Ordovician (Trenton pay zone). In the new fields, two wells had been reported in Illiopolis by the end of the year and one in each of the others.

### Exploration

Of the 1,036 new tests for oil and gas, 159 (15.3 percent) were wildcats (half a mile or more

from production). Twenty-two of the wildcats were completed as producers, a success ratio of 13.8 percent. Of the 109 wildcats drilled between  $\frac{1}{2}$  and  $1\frac{1}{2}$  miles from production (wildcat nears), 18 were producers, a success ratio of 16.5 percent. The 50 wildcats drilled more than  $1\frac{1}{2}$  miles from production (wildcat fars) resulted in 4 producers, a success ratio of 8.0 percent.

Of the 46 counties in which new oil and gas tests were drilled in 1977, 41 had at least one wildcat test, including wildcat nears and wildcat fars. White County led with 22 wildcats, followed by Wayne (14), Effingham, Fayette, and Hamilton (8 each), Marion (7), and Clark, Edwards, and Washington (6 each). Of the wildcat fars drilled, Clark led with 6, followed by Fayette (4), and Coles, Pope, and Sangamon (3 each).

Of the 50 wildcat fars reported in 1977, 26 tested rocks below the Mississippian: 11 Devonian, 11 Silurian, and 4 Ordovician.

Deeper production was discovered in 15 oil fields in 1977. The Salem was discovered in Coil, Half Moon, Keenville, Keenville East, Mayberry, Rochester, Springerton South, and Whittington; the Ullin (Warsaw pay zone) was discovered in Broughton, Enfield, Enfield North, Herald Consolidated, Mayberry, Rural Hill North, Samsville West, Springerton South, and Whittington, and the Trenton pay zone was discovered in Johnson North.

Unsuccessful tests to find deeper production were drilled in 41 fields. The pay zones at total depth and the fields are as follows: McClosky in Fehrer Lake; St. Louis in Crossville West and Seminary; Salem in Browns, Elliottstown North, Flora Southeast, Goldengate North Consolidated, Johnsonville West, Oakdale North, Pinkstaff, and Zenith East; Ullin (Warsaw) in Barnhill, Beman, Bone Gap Consolidated, Centerville East, Dale Consolidated, Divide Consolidated, Ewing, Exchange East, Inman East Consolidated, Johnsonville Consolidated, Keenville, Keenville East, Mt. Erie North, Parkersburg Consolidated, Passport North, Sailor Springs Consolidated, Storms Consolidated, and Whittington South; Osage in Markham City; Devonian in Bellair, Concord Consolidated, Lancaster, Maple Grove Consolidated, Mt. Olive, New Bellair, Orchardville North, and Os-kaloosa South; Silurian in Brubaker; Trenton in Kellerville; and St. Peter in Sumpter.

Drilling for Salem production continued to be the most important aspect of activity in Illinois in 1977; 131 new Salem producers were completed in 23 fields and 10 counties. Wayne County led with 91 Salem producers, followed by Clay County with 14. Salem was discovered as a new pay zone



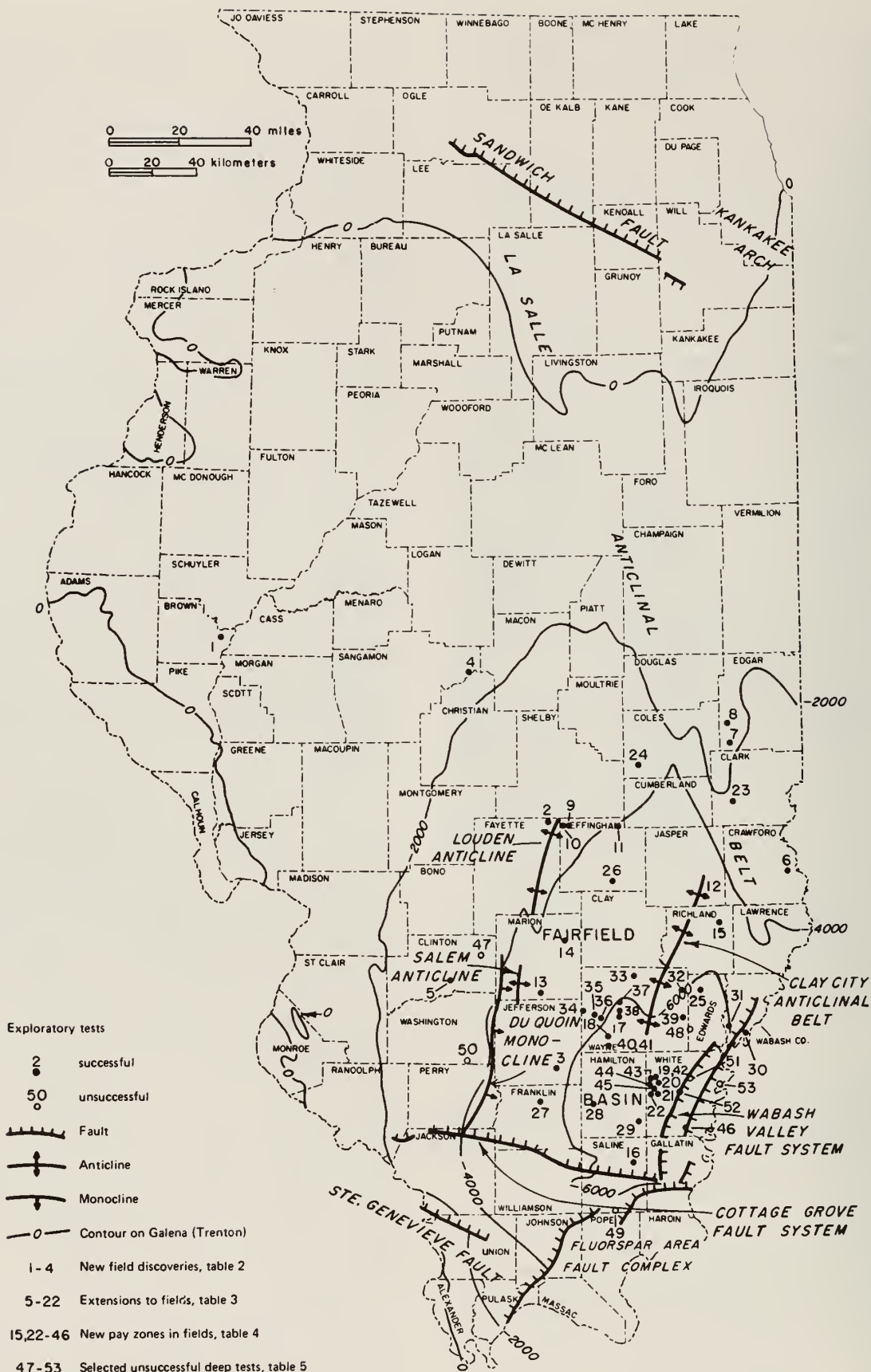


Figure 1. Major tectonic features of Illinois and their relations to significant holes drilled during 1977. Numbered holes shown are listed in tables 2, 3, 4, and 5.

in 9 fields (table 4). Early in 1977 production from the Salem was discovered in Keenville field, Wayne County. By the end of 1977, 42 Salem wells had been reported in the field. Initial production figures averaged 161 barrels of oil per day per well and ranged as high as 350 barrels per day. Salem production in the field is about 3,600 feet deep, some 450 to 500 feet deeper than the McClosky, the deepest previous production in the field. Although associated with structure, accumulation in the field appears to be stratigraphically controlled.

In Clay City Consolidated field in Wayne and Clay Counties, 37 Salem producers were completed in 1977. For those wells where the initial production is known and where the production is not commingled with production from other pay zones, the initial production ranged from 7 to 340 barrels of oil per day and averaged 85 barrels of oil per day.

Interest in the Ullin Limestone, immediately below the Salem, continued in 1977. Tests with Ullin as the objective totaled 147. Nearly all of the activity was in southeastern Illinois, in the deep part of the Illinois Basin. Wayne County, with 58 tests, and White County, with 25, accounted for more than half of the tests. Wells with Ullin production, 32 in all, were completed in 14 fields. The Ullin was discovered as a new pay zone in 9 fields (table 4). Excluding the wells in which Ullin production was commingled with oil from other zones, initial production figures of the Ullin producers completed in 1977 averaged 93 barrels of oil per day; a well that discovered Ullin production in Broughton field, Hamilton County produced as much as 580 barrels of oil per day.

In Main Consolidated field, Crawford County, in 1976, oil was discovered in the Trenton pay zone at about 4,000 feet—more than 1,000 feet deeper than previous production in the field. In 1977, 23 wells producing from the Trenton were completed in the field. Except for one well in which Trenton production was commingled with other production, initial production for the Trenton producers ranged from 5 to 200 barrels of oil per day and averaged 56 barrels per day.

More than half of all the oil and gas tests reported in 1977 were drilled to the Salem Limestone or deeper. Six unsuccessful tests were drilled to depths in excess of 6,000 feet (table 5). Thus deeper drilling (the testing of pre-Ste. Genevievean rocks) was a very important factor in the oil and gas activity in Illinois in 1977 and probably will continue to be so in 1978.

## **FIELDS REVIVED AND ABANDONED**

Six abandoned oil fields were revived by successful drilling in 1977: Broughton in Hamilton County, Hill in Effingham County, Posey West in Clinton County, Russellville in Lawrence County, Taylor Hill in Franklin County, and Waggoner in Montgomery County.

Three oil fields, which had a combined total of 42 wells and a combined cumulative production of 1,079,000 barrels of oil, were abandoned in 1977: Calhoun East in Richland County; Ina in Jefferson County; and Samsville in Edwards County. Calhoun East had 9 wells and cumulative production of 331,000 barrels of oil; Ina had 28 wells and cumulative production of 748,000 barrels; Samsville had 5 wells, but production of only about 1,000 barrels.

## **FIELDS CONSOLIDATED**

Phillipstown South field has merged with Phillipstown Consolidated field.

## **MAPS OF OIL AND GAS FIELDS**

Maps of the Illinois oil and gas fields, which last appeared in the annual report for 1970, are included in this report on pages 135 to 145.

## **GEOLOGIC COLUMN**

Figure 2 is a generalized geologic column of southern Illinois. It does not show the Pleistocene deposits that cover much of Illinois bedrock, the Tertiary and Cretaceous rocks that occur in a belt across the southern end of the state, nor the approximately 4,000 feet of Ordovician and Cambrian rocks between the base of the St. Peter Sandstone and the top of the Precambrian basement. Pay zones are indicated on the geologic column by solid dots.

## **CRUDE OIL RESERVES**

The estimate of crude oil reserves declined 19.1 million barrels, or 14.9 percent, from the estimate of reserves at the end of 1976. This calculation includes the deduction of 1977 production and the addition of 6.5 million barrels of oil reserves from extensions, new pay zones, infill drilling, and new fields. The additions to reserves are equivalent to 25.4 percent of the oil produced during 1976.



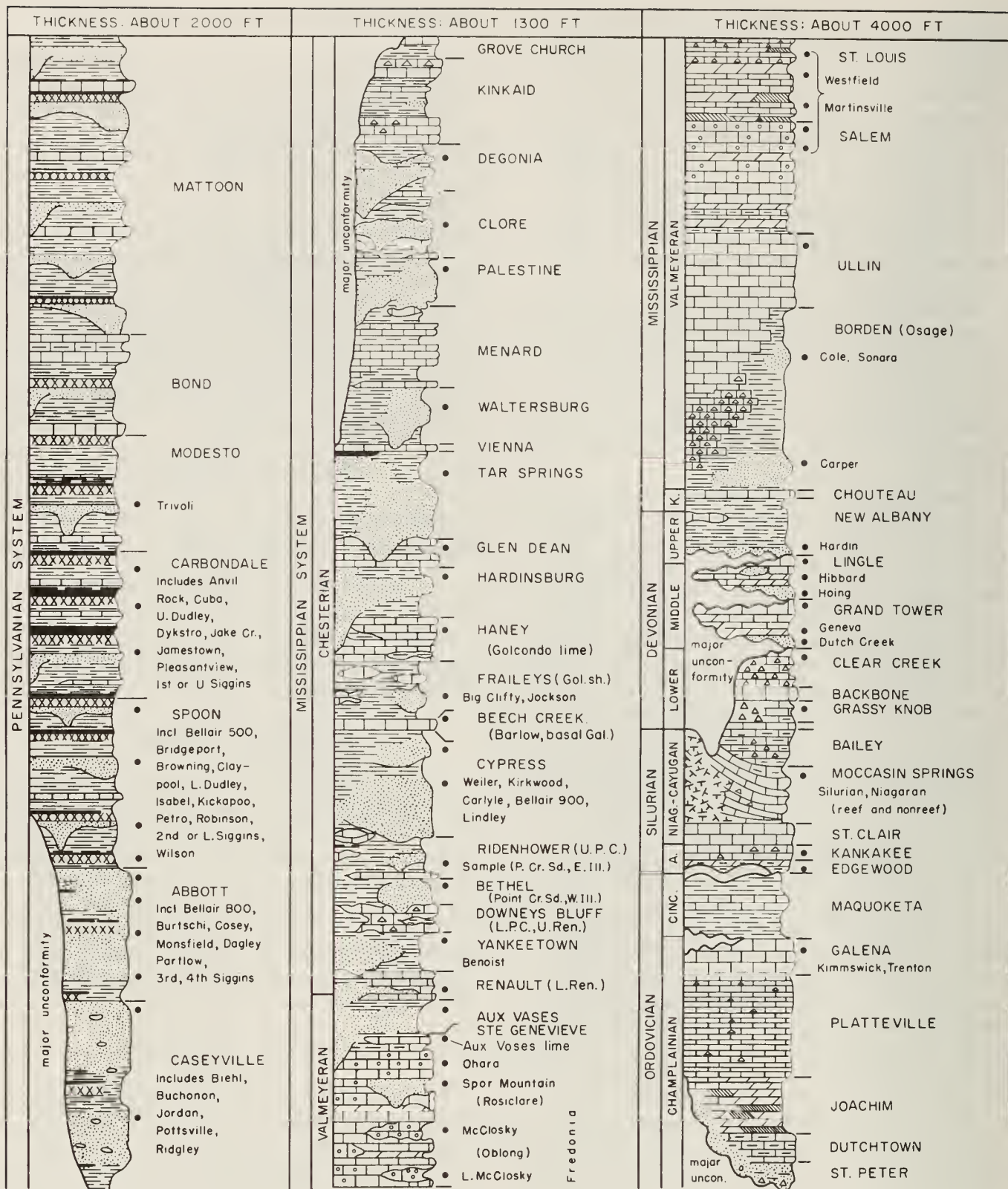


Figure 2. Generalized geologic column of southern Illinois. Solid dots indicate oil and gas pay zones. Formation names are in capitals; other pay zones are not. About 4,000 feet of lower Ordovician and upper Cambrian rocks under the St. Peter are not shown. The names of the Kinderhookian, Niagara, Alexandrian, and Cincinnati Series are abbreviated as K., Niag., A., and Cinc., respectively. Variable vertical scale. (Originally prepared by David H. Swann.)

	Millions of barrels
Estimated reserves, 1/1/77	128.2
Withdrawn by 1977 production	25.6
Remainder after production	102.6
Revisions	
Extensions, new pay zones, infill drilling and new fields	6.5
Estimated reserves, 1/1/78	109.1

## PRODUCTIVE ACREAGE

An estimated 5,570 acres were added to the area productive of oil, and an estimated 300 acres were added to the area productive of natural gas in 1977. The total area in Illinois that has been proven productive of oil is 610,180 acres and of gas, 36,390 acres.

In Illinois the normal spacing pattern for oil wells producing from depths less than 4,000 feet is 10 acres per well for production from sandstone and 20 acres per well for production from limestone. The Oil and Gas Act makes possible (under certain circumstances) the establishment of drilling units for production from less than 4,000 feet deep. The spacing is fixed at not less than 10 acres nor more than 40 acres per well. For wells producing from depths between 4,000 and 6,000 feet, the spacing is 40 acres per well. For wells producing from depths greater than 6,000 feet, it is 160 acres per well.

## GAS PRODUCTION

Approximately 1,003 million cubic feet of natural gas was produced and marketed in Illinois in 1977, 35.5 percent less than in 1976.

Johnston City East and Stirtz fields in Williamson County furnished 44.2 million cubic feet of natural gas to Murphysboro, Carbondale, Benton, and Du Quoin. From Raleigh field, Saline County, 14.3 million cubic feet was sold to cities in Gallatin County. From Harco East field and part of Eldorado East field, Saline County, 20 million cubic feet was sold to Harrisburg and Eldorado. From part of Eldorado East field, in Gallatin County, 32.4 million cubic feet was sold to the Equality and Carmi areas. Eldorado Consolidated field in Saline County supplied 4.6 million cubic feet of gas to the city of Eldorado. From Mattoon field in Coles

County, 848.1 million cubic feet was sold to the Effingham, Mattoon, and Paris areas. Stubblefield South field in Bond County furnished 39.8 million cubic feet of gas to the Illinois Power Company system.

## UNDERGROUND STORAGE OF LIQUEFIED PETROLEUM GAS

Twelve caverns, which resulted from the mining of shale or limestone, provide storage capacity for 3,174,000 barrels of liquefied petroleum gases in Illinois (table 6). Propane, butane, propylene, and ethane are the gases being stored.

## UNDERGROUND STORAGE OF NATURAL GAS

In Illinois at the end of 1977, 39 underground natural gas storage projects either were operating, were being developed, or were being tested. Several reservoirs were being studied for their capabilities for storing gas. Gas is now stored in rocks of Pennsylvanian through Cambrian age at depths from 350 to 4,000 feet.

Table 7 lists information about active Illinois storage projects. These storage facilities could hold as much as 1.6 trillion cubic feet of gas. The amount of this capacity that is likely to be used depends upon the availability of gas; ultimately, about 1.2 trillion cubic feet probably will be used. About 780 billion cubic feet of gas actually was in storage at the end of 1977; about one-third was working gas, and two-thirds was cushion gas, which is not readily available for withdrawal and delivery to customers.

## SURFACE STORAGE OF LIQUEFIED NATURAL GAS

A facility for the liquefaction and storage of natural gas at the Manlove Gas Storage Field, Mahomet, Illinois, is being operated by the Peoples Gas Light and Coke Company.

Two above-ground tanks are each capable of containing, as liquefied natural gas, the equivalent of one billion cubic feet of pipeline natural gas measured at standard conditions of temperature and pressure.





TABLE 1A. Summary of oil and gas drilling activity and oil production in 1977

County	Production tests							Service wells						
	Permits to drill	Total comple- tions	ONWO				Footage drilled	New ser- vice wells	Conversions		Footage drilled	Struc- ture tests	Total footage drilled	Total oil production (bbl)
			New Holes		D&A to prod.*	Prod. to prod. in new pay zones*			Were prod.	Other†				
			Prod.*	O&A										
Adams	2	1	-	1	-	-	895	-	-	-	-	-	895	4,119
Bond	11	13	9	3	1	(1)	18,903	-	-	-	-	-	18,903	48,534
Brown	15	4	- (1)	3	-	-	2,431	-	-	-	-	-	2,431	2,504
Champaign	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Christian	31	28	-	7	-	-	14,188	-	20	1	-	-	14,188	291,737
Clark	61	48	31	15	-	-	75,733	2	-	-	711	-	76,444	379,545‡
Clay	99	90	52	26	3	1	255,509	-	8	1	-	-	255,509	1,047,124
Clinton	15	18	9	7	1	1	31,828	1	-	-	965	-	32,793	395,081
Coles	18	21	8 (3)	7	2	-	32,649	-	-	1	-	-	32,649	171,241
Crawford	183	165	99 (5)	25	2	-	248,945	14	7	-	15,064	13	277,125	1,569,745
Cumberland	4	3	1	2	-	-	4,462	-	-	-	-	-	4,462	‡
OeKalb	2	-	-	-	-	-	-	-	-	-	-	-	-	-
DeWitt	2	4	1	2	-	-	1,843	-	-	1	-	-	1,843	111,985
Douglas	3	1	-	-	1	-	-	-	-	-	-	-	-	8,047
Edgar	18	15	1 (10)	3	-	-	6,675	-	1	-	-	-	6,675	72,703
Edwards	62	48	15	29	-	-	162,973	-	1	3	-	-	162,973	499,486
Effingham	51	35	24	9	2	-	102,882	-	-	-	-	-	102,882	395,642
Fayette	37	27	11 (1)	11	1	6	55,114	1	2	-	1,600	-	56,714	1,996,555
Franklin	49	23	7	7	4	-	54,458	4	-	1	8,791	-	63,249	449,006
Gallatin	25	18	8	8	1	-	45,517	-	1	-	-	-	45,517	446,662
Greene	-	1	-	1	-	-	724	-	-	-	-	-	724	-
Hamilton	40	22	7	12	-	1	74,891	-	1	2	-	-	74,891	467,592
Hancock	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Jackson	1	2	-	2	-	-	5,337	-	-	-	-	-	5,337	2,630
Jasper	26	14	7	4	3	-	31,959	-	-	-	-	-	31,959	526,901
Jefferson	43	23	10	9	1	-	67,286	-	3	-	-	-	67,286	619,320
Johnson	4	1	-	1	-	-	2,395	-	-	-	-	-	2,395	-
Lawrence	36	83	27	16	1	-	92,231	33	5	1	34,045	-	126,276	3,087,467
McDonough	-	-	-	-	-	-	-	-	-	-	-	-	-	27,930
McLean	2	1	-	1	-	-	1,182	-	-	-	-	-	1,182	-
Macon	10	4	3	1	-	-	8,479	-	-	-	-	-	8,479	15,177
Macoupin	3	3	1	1	- (1)	-	1,063	-	-	-	-	-	1,063	5,379
Madison	11	5	-	4	1	-	3,992	-	-	-	-	-	3,992	89,052
Marion	33	28	7	11	1	1	58,673	-	7	2	59	-	58,732	2,701,034
Monroe	21	5	4	-	-	-	1,736	1	-	-	427	-	2,163	4,368
Montgomery	2	4	1	3	-	-	7,497	-	-	-	-	-	7,497	1,247
Moultrie	-	-	-	-	-	-	-	-	-	-	-	-	-	2,015
Perry	3	2	-	2	-	-	4,391	-	-	-	-	-	4,391	13,899
Pope	2	3	-	3	-	-	16,965	-	-	-	-	-	16,965	-
Randolph	8	8	5	2	1	-	14,453	-	-	-	-	-	14,453	62,462
Richland	24	24	9	9	3	1	62,055	-	3	-	-	-	62,055	887,797
St. Clair	3	3	-	2	-	-	2,836	-	-	1	-	-	2,836	29,483
Saline	11	12	3	5	- (1)	-	28,741	-	1	2	-	-	28,741	163,364
Sangamon	9	12	5	6	-	-	19,218	1	-	-	1,540	-	20,758	134,084
Schuyler	2	1	-	1	-	-	994	-	-	-	-	-	994	-
Shelby	1	1	-	1	-	-	2,845	-	-	-	-	-	2,845	34,346
Tazewell	-	1	-	1	-	-	1,145	-	-	-	-	-	1,145	-
Wabash	78	60	17	32	3	1	139,578	4	3	1	7,957	-	147,535	928,652
Washington	13	14	2	10	-	-	25,730	-	1	1	-	-	25,730	439,684
Wayne	288	240	137	72	17	5	792,185	6	4	4	9,849	-	802,034	3,764,381
White	174	129	64	49	8	2	422,459	1	4	3	-	-	422,459	2,950,843
Williamson	7	7	-	5	-	-	14,274	-	2	-	-	-	14,274	179,325
Production, location unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	579,965
Total	1,546	1,275	585 (20)	431	57 (2)	19 (1)	3,020,319	68	74	25	81,008	13	3,114,443	25,608,113

\*Gas in parentheses; not included in totals.  
†Former D&A and other types of wells, except former producers.  
‡Production is combined for Clark and Cumberland Counties.

TABLE 1B. Summary of underground natural gas storage drilling activity in 1977\*

County	Permits issued	Total completions	Injection and withdrawal wells		Service wells		Footage drilled
			New wells	Conversions	New wells	Conversions	
Bond	-	2	1	-	1	-	1,900
Champaign	10	9	8	1	-	-	34,289
Fayette	5	4	-	3	-	1	-
Gallatin	-	4	1	3	-	-	627
Kankakee	-	3	2	-	-	1	5,152
La Salle	-	4	2	-	2	-	7,537
Livingston	11	6	6	-	-	-	13,553
McLean	13	19	19	-	-	-	78,934
	—	—	—	—	—	—	—
	39	51	39	7	3	2	141,992

\*Does not include structure tests; 81 permits to drill structure tests were issued, and 86 structure test holes, with total footage of 70,244, were reported drilled in 1977.

TABLE 2. Discovery wells of four new fields in 1977

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field	Initial daily prod., oil/water (bbl)	Pay zone	Prod. depth (ft)	Total depth (ft)	Comple- tion date
1	Brown 26-1S-2W	De-Kane Oil Co. 1 H. Leverton	Cooperstown	350 MCFG	Silurian	516	516	6-18
2	Fayette 22-9N-3E	Louis H. Kapp, Jr. 1 Goldie Wills	Holliday	20	Devonian	3,151	3,237	11-12
3	Jefferson 12-4S-3E	C. E. Brehm 1 Bernard-Hughes	Spring Garden	100	McClosky	3,087	3,942	10-16
4	Sangamon 26-16N-2W	Homeier Oil Enterprises 1-A Howard Smith	Illiopopolis	40/50	Silurian	1,765	1,803	11-28-74

TABLE 3. Discovery wells of 18 extensions to fields in 1977  
(C, Consolidated; E, East; W, West; North; S, South)

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field	Initial daily prod. oil/water (bbl)	Pay zone	Prod. depth (ft)	Total depth (ft)	Comple- tion date	Remarks
5	Clinton 12-1N-3W	John F. Dunnill 1 Jobe	Posey W	5	Devonian	2,616	2,616	11-8	Revives field.
6	Crawford 3-6N-11W	C.E.R. Prod. Co. 1 M. Green Comm.	Main C	Shut in gas well	Pennsylva- nian	592	1,533	7-19	
7	Edgar 12-12N-14W	Earnest Zink 1 Zink	Inclose	500 MCFG	Pennsylva- nian	438	438	8-20	
8	Edgar 11-13N-14W	Earnest Zink 1 Grafton	Ashmore E	112 MCFG	Pennsylva- nian	362	362	6-20	
9	Effingham 29-9N-4E	S. A. & S. Britton 1 McKay	Louden	1	Devonian	3,142	3,242	12-13	
10	Effingham 30-9N-4E	John Carey Oil Co. 1 John Larimore	Louden	97	Devonian	3,167	3,198	7-6	
11	Effingham 35-9N-6E	W. F. Masters 1 Siemer	Teutopolis	30	Spar Mtn.	2,426	2,426	3-22	
12	Jasper 11-5N-10E	Lahoil, Inc. 1 Hinkel-Wartsbaugh	Ste. Marie W	14/25	Spar Mtn.	2,869	2,888	9-11	
13	Marion 30-1N-3E	G.A.M. Oil Co. 1 Pitts	Kell N	12/80	Salem	2,663	2,946	11-1	
14	Marion 8-3N-4E	David F. Herley 1 Courson	Omega	10	McClosky	2,443	3,150	3-1	
15	Richland 16-4N-14W	Rector and Stone 1 Rennier	Amity	4/10	Aux Vases McCloskey	3,062 3,150	3,873	8-26	OWDD, OTD 3203, was D&A. Aux Vases new pay in field.
16	Saline 28-8S-7E	Petro Search Assoc. 1-P Sutton	Eldorado C	500 MCFG	No. 5 Coal	409	2,919	8-16	OWWO, was D&A.
17	Wayne 26-1S-6E	J & H Oil 1 C. I. Ralston	Clay City C	20/20	Ohara Salem	3,154 3,696	3,970	1-6	
18	Wayne 29-2S-6E	Ill. Mid-Cont. & Dee Drlg. 1 Sherwood Land	Mayberry	10/30	Ullin	4,159	4,291	12-20	
19	White 28-4S-8E	Perry Fulk 1 W. L. Lewis	Springerton S	50/50	Spar Mtn.	3,509	3,547	6-14	
20	White 34-4S-8E	R. K. Petroleum Corp. 2 Continental Bank	Springerton S	26	Aux Vases	3,338	3,338	7-12	
21	White 16-5S-8E	W. R. & P. Becker 3 Triple AAA Ranch	Enfield N	15	Ohara	3,379	3,470	8-16	OWWO, was D&A.
22	White 17-5S-8E	Pricefields Oil, Inc. 1 Fields-West	Enfield	10	Ullin	4,318	4,358	8-1	Also new pay in field.

TABLE 4. Discovery wells of 29 new pay zones in fields in 1977  
(C, Consolidated; E, East; N, North; S, South; W, West)

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field	Initial daily prod. oil/water (bbl)	New pay zones	Prod. depth (ft)	Total depth (ft)	Comple- tion date	Remarks
23	Clark 36-10N-14W	Crossroads Oil 1 Freed-Tiffin Comm.	Johnson N	15/15	Trenton	2,900	2,900	5-31	
24	Coles 2-11N-7E	H. J. Adams 0-1 E. Ganley	Mattoon	11/11	Salem	2,236	2,250	3-13	
25	Edwards 22-1N-10E	Spartan Pet. 2 Leonard Garman	Samsville W	20/40	Ullin	4,170	4,175	5-31	
26	Effingham 16-6N-6E	S. A. & S. Britton 1 C. Bushue	Hill	7/10	Spar Mtn.	2,547	2,572	9-21-76	OWWO, was D&A. Revives field.
27	Franklin 30-5S-3E	H & W Oil Co. 1 Adams	Whittington	20	Salem Ullin	3,300 3,562	3,719	2-21	OWDD, OTD 2,964 ft, was D&A.
28	Hamilton 34-5S-5E	Juniper Pet. Corp. 47-34 Clark- Meneghin	Rural Hill N	89/64	Ohara St. Louis Ullin	3,335 3,638 4,220	4,275	3-15	
29	Hamilton 27-6S-7E	Duke Resources 1 Bonan	Broughton	580	Ullin	4,191	4,269	11-11	
15	Richland 16-4N-14W	Rector & Stone Drlg. Co. 1 Renner Comm.	Amity	4/10	Aux Vases	3,062	3,873	8-26	OWDD, OTD 3,203 ft, was D&A. Also prod. from McClosky. Also extension to field.
30	Wabash 22-2S-13W	Hocking Oil Co. 1 Riley Heirs et al.	Rochester	30	Salem	3,210	3,375	11-7	OWDD, OTD 1,980 ft, was D&A.
31	Wabash 14-2S-14W	Hocking Oil Co. 1 Shain-Dunkel Unit	Browns E	15	Spar Mtn.	2,946	3,729	8-22	Also prod. from Salem.
32	Wayne 23-1N-9E	Energy Resources Corp. 3 French	Maple Grove C	35/75	St. Louis	3,500	4,020	12-30-76	Also prod. from Aux Vases and Spar Mtn.
33	Wayne 33-2N-7E	Perry Fulk 3 Knapp	Rinard N	4/10	Ohara	3,132	3,220	12-15-76	OWWO. Also prod. from McClosky.
34	Wayne 19-1S-5E	Louis H. Kapp, Jr. 1 W. Donoho	Coil	480	Salem	3,510	3,550	8-2	OWDD, OTD 3,064 ft, was D&A.
35	Wayne 27-1S-5E	F. F. Farrar 1 Roy Reed	Keenville	335	Salem	3,620	3,807	1-4	
36	Wayne 36-1S-5E	R. L. Burns Corp. 36-1 Shreve	Keenville E	42/21	Salem	3,709	3,765	8-23	
37	Wayne 11-1S-6E	Republic Oil Co. 1 Pennington	Johnsonville S	50/2	St. Louis	3,306	3,800	11-15-76	
38	Wayne 23-1S-6E	Modern Explorations 1 Trotter	Johnsonville S	200/40	Ohara	3,160	3,826	2-14	Also prod. from Salem.
39	Wayne 35-1S-9E	K. S. Revelle 1 L. Sams	Half Moon	5/5	Salem	3,987	3,995	12-20	OWDD, OTD 3,410 ft, was D&A.
40	Wayne 8-3S-6E	Comanche Oil Corp. 1 Parker Comm.	Mayberry	200/20	Ullin	4,297	5,373	1-14	
41	Wayne 8-3S-6E	Comanche Oil Corp. 1 V. Rawls Comm.	Mayberry	60/14	Salem	3,842	4,296	4-10	Also prod. from McClosky and Ullin.
42	White 28-4S-8E	Perry Fulk 1 Hazelip	Springerton S	15/100	Ullin	4,385	4,385	6-18	
43	White 29-4S-8E	Perry Fulk 2 Mary Ward et al	Springerton S	40	Salem	4,292	4,500	5-10	
44	White 32-4S-8E	R. K. Petroleum 1 Warthen Comm.	Springerton S	198/20	Aux Vases	3,324	3,462	12-28-76	
45	White 9-5S-8E	R. K. Petroleum 4 Triple AAA Ranch	Enfield N	50	Ullin	4,385	4,392	5-17	
22	White 17-5S-8E	Pricefields Oil, Inc. 1 Fields-West	Enfield	10	Ullin	4,318	4,358	8-1	Also extension to field.
46	White 2-7S-9E	C. E. Brehm Drlg. & Prod. 1 Rupp	Herald C	25/30	Ullin	3,961	5,285	5-29-76	

TABLE 5. Selected unsuccessful deep tests in 1977

Map no. (fig. 1)	County and location	Operator, well no., and farm	Field or wildcat	Deepest strata tested	Depth to top (ft)	Total depth (ft)	Comple- tion date
47	Clinton 33-3N-1W	C. E. Brehm Drlg. & Prod. 1 Hemminghaus Comm.	Wildcat near*	Precambrian	6,880	7,040	10-9-76
48	Edwards 18-2S-10E	Modern Exploration 1 Woods†	Ellery North	Dutch Creek	5,397	5,425	9-27
49	Saline 34-10S-6E	Texas-Pacific Oil Co., Inc. 1 John Wells et al.	Wildcat far‡	Maquoketa	?	6,200	9-21
50	Washington 35-3S-2W	C. E. Brehm Drlg. & Prod. 1 Bochantin Comm.	Wildcat near*	Precambrian	7,294	7,338	1-29
51	White 30-4S-10E	C. E. Brehm Drlg. & Prod. 1 Winter-Renshaw Comm.	Sumpter	St. Peter	7,800	7,852	11-3
52	White 15-5S-9E	C. E. Brehm Drlg. & Prod. 1 W. F. Reinwald et al.	Wildcat near*	Knox	7,930	8,000	8-29
53	White 4-5S-14W	The Superior Oil Co. 30 E. S. Greathouse†	New Harmony Consolidated	"Trenton"	?	6,600	9-25

\*Drilled ½ to 1½ miles from production.  
†Plugged back to produce from shallower zone.  
‡Drilled more than 1½ miles from production.

TABLE 6. Underground storage facilities for liquefied petroleum gases in Illinois, January 1, 1978

Company	Location	Type of storage	Approx. depth (ft)	Stratigraphic unit	Capacity (bbl)	Product
General Facilities, Inc.	Wood River, Madison County	Mined limestone	400	Valmeyeran (Mississippian)	80,000	Propane
Hydrocarbon Transportation, Inc.	Morris, Grundy County	Mined shale	1,450	Eau Claire	150,000	Ethane
Hydrocarbon Transportation, Inc.	Lemont, Will County	Mined shale Mined shale	304 358	Maquoketa Maquoketa	250,000	Propane Butane
Mid-America Pipeline Co.	Farmington, Peoria County	Mined shale	260	Pennsylvanian	440,000	Propane
Phillips Petroleum Co.	Kankakee, Kankakee County	Mined shale	300	Maquoketa	260,000	Propane
Shell Oil Co.	Wood River, Madison County Wood River, Madison County	Mined limestone Mined limestone	430	Valmeyeran (Mississippian)	500,000 232,000	Butane Propane
Tuloma Gas Products Co.	Wood River, Madison County Wood River, Madison County	Mined limestone Mined limestone	400	Valmeyeran (Mississippian)	190,000 50,000	Propane Propylene
U.S. Industrial Chemicals Co.	Tuscola, Douglas County Tuscola, Doughlas County	Mined limestone and siltstone	350	Pennsylvanian	170,000 800,000	Propane Propane
Warren Petroleum Corp.	Crossville, White County	Mined shale	--	Pennsylvanian	52,000	LP gas
TOTAL					3,174,000	

TABLE 7. Active underground natural gas storage

Project	Company	County Township Range	Operational dates (Initial)			Number of wells			Geologic data			
			Devel- opment	Stor- age	With- drawal	Oper- ating	Obser- vation	Other	Stratigraphic unit	Lithol- ogy	Trap	Native fluid
Ancona	Northern Illinois Gas Co.	La Salle & Liv- ingston 29, 30N-2, 3E	1961	1963	1965	108	30	—	Mt. Simon	sand	anti- cline	water
Ashmore	Central Illinois Public Service	Coles & Clark 12N-10, 11E, 14W	1960	1963	1963	48	5	53	Spoon Salem	sand lime	dome	gas
Brocton	URS	Douglas & Edgar 14, 15N-13, 14W	(potential air storage)			0	5	—	Lingle Grand Tower	lime dolo- mite	dome	water
Centralia East	Illinois Power Co.	Marion 1N-1E	1960	1964	1966	17	4	—	Pennsylvanian	sand	strati- graphic lens	gas
Cooks Mills	Natural Gas Pipe- line Co.	Coles & Douglas 14N-7, 8E	1956	1959	1959	24	5	4	Cypress Spar Mountain ("Rosiclare")	sand	—	gas
Corinth	Central Illinois Public Service	Williamson 8S-4E	1972	1972	1972	2	—	—	Hardinsburg	sand	—	gas
Crab Orchard	Central Illinois Public Service	Williamson 9S-4E	1972	1972	1972	2	—	—	Hardinsburg	sand	—	gas
Crescent City St. P.	Northern Illinois Gas Co.	Iroquois 26, 27N-13W	1959	1967	(operations temporarily ceased)				St. Peter	sand	anti- cline	water
Crescent Mt. S.			(in exploration)			4	9	—	Mt. Simon	sand	dome	water
Eden South	Illinois Power Co.	Randolph 5S-5W	1970	1971	1971	12	3	—	Cypress	sand	strati- graphic	gas
Elbridge	Midwestern Gas Transmission Co.	Edgar 12, 13N-11W	1961	1965	1966	12	7	—	Grand Tower	lime	drape over reef	water
Freeburg	Illinois Power Co.	St. Clair 1, 2S-7W	1958	1959	1959	87	3	—	Cypress	sand	strati- graphic	gas
Gillespie- Beuld	Illinois Power Co.	Macoupin 8N-6W	1958	1958	1959	7	0	—	Pennsylvanian	sand	strati- graphic	gas
Glasford	Central Illinois Light Co.	Peoria 7N-6E	1960	1964	1964	33	14	—	Niagaran	dolo- mite	dome	water
Herscher Gvl.	Natural Gas Pipe- line Co.	Kankakee 30N-10E	1952	1953	1953	60	124	24	Galesville	sand	anti- cline	water
Herscher Mt. S.			1957	1957	1958	55	18	—	Mt. Simon	sand	anti- cline	water
Herscher- Northwest	Natural Gas Pipe- line Co.	Kankakee 30, 31N-9E	1968	1969	1970	20	14	1	Mt. Simon	sand	anti- cline	water
Hillsboro	Illinois Power Co.	Montgomery 9, 10N-3W	1972	1974	1975	4	7	—	St. Peter	sand	dome	water
Hookdale	Illinois Power Co.	Bond 4N-2W	1962	1963	1963	10	4	—	Yankeetown ("Benoist")	sand	strati- graphic & structural	gas
Hudson	Northern Illinois Gas Co.	McLean 24, 25N-2, 3E	1970	1971	1971	32	8	1	Mt. Simon	sand	dome	water
Hume	URS	Edgar 16N-13, 14W	(potential air storage)			0	9	—	Lingle Grand Tower	lime dolomite	dome	water
Lake Bloomington	Northern Illinois Gas Co.	McLean 25, 26N-2, 3E	1971	1971	1972	33	16	1	Mt. Simon	sand	anti- cline	water
Lexington	Northern Illinois Gas Co.	McLean 25N-3, 4E	1971	1971	1972	28	12	1	Mt. Simon	sand	dome	water
Lincoln	Central Illinois Light Co.	Logan 19N-3W	1971	1974	1974	21	18	—	Silurian	dolo- mite	dome	water
Loudon	Natural Gas Pipe- line Co.	Fayette 7, 8, 9N-3E	1967	1967	1969	64	61	20	Grand Tower	lime	anti- cline	oil
Manlove	Peoples Gas Light & Coke Co.	Champaign 21N-7E	1960	1964	1966	121	12	0	Mt. Simon	sand	anti- cline	water
Media Gvl.	Mid-Continent Gas Storage Co.	Henderson 9N-4, 5W	(testing)			3	13	0	Galesville	sand	dome	water
Media Mt. S.			(testing)			2	0	0	Mt. Simon	sand	dome	water
Mills & Edwards	Egyptian Gas Stor- age Co.	Gallatin 7S-9E	1974	1975	1975	1	0	0	Tar Springs	sand	lens	gas
Nevins	Egyptian Gas Stor- age Co.	Gallatin 8S-8E	1974	1975	1975	1	0	0	Palestine	sand	lens	gas
Nevins	Midwestern Gas Transmission Co.	Edgar 12, 13N-11W	1961	1965	1966	14	7	—	Grand Tower	lime	drape over reef	water
Pecatonica	Northern Illinois Gas Co.	Winnebago 27N-10E	1967	1969	1970	14	15	—	Eau Claire	sand	dome	water
Pontiac Gvl.	Northern Illinois Gas Co.	Livingston 27, 28N-6E	1975	1976	1977	8	5	—	Galesville	sand	dome	water
Pontiac Mt. S.			1966	1968	1969	43	7	1	Mt. Simon	sand	dome	water
Richwoods	Gas Utilities Co.	Crawford 6N-11W	1966	1966	1966	4	2	0	Pennsylvanian	sand	—	gas
St. Jacob	Mississippi River Transmission Corp.	Madison 3N-6W	1963	1963	1965	10	4	—	St. Peter	sand	dome	water
Sciota	Central Illinois Public Service	McDonough 6, 7N-3, 4W	1974	1975	1975	10	9	1	Mt. Simon	sand	dome	water
Shanghai	Illinois Power Co.	Warren & Mercer 12, 13N-1W	1970	1971	1971	9	9	—	Galesville	sand	dome	water
State Line	Midwestern Gas Transmission Co.	Clark, Ill., & Vigo, Ind. 12N-10W	1961	1963	1964	9	6	—	Grand Tower	lime	drape over reef	water
Tilden	Illinois Power Co.	St. Clair & Washington 3S-5, 6W	1957	1961	1961	44	14	—	Cypress	sand	strati- graphic	gas
Troy Grove	Northern Illinois Gas Co.	La Salle 34, 35N-1E	1957	1958	1959	96	31	—	Eau Claire Mt. Simon	sand	dome	water
Tuscola	Panhandle Eastern Pipeline Co.	Douglas & Champaign 16, 17N-8E	(testing)			13	11	1	Mt. Simon	sand	dome	water
Waverly St. P.	Panhandle Eastern Pipeline Co.	Morgan 13N-8W	1952	1954	1962	59	23	22	St. Peter	sand	dome	water
Waverly Gvl.			1969	1969	1970				Galesville	sand	dome	water



projects in Illinois—January 1, 1978

Reservoir data						Capacities (MMcf)*			Withdrawals (MMcf)			Project
Area in acres		Depth (feet)	Thickness or closure (feet)	Average porosity (%)	Average permeability (millidarcys)	Potential, working and cushion	Dec. 31, 1977		Max. vol. in storage 1977 (MMcf)	1977 Peak daily	1977 Total	
Storage	Closure						Working	Cushion				
—	12,840	2,154	290	12.3	114	170,000	52,843	100,313	167,188	684	42,670	Ancona
—	1,600	400	4-80	15.0	up to 3,000	3,575	1,326	1,991	3,563	30	642	Ashmore
—	30,000	672	210	12.2	—	70,000	—	—	—	—	—	Brocton
463	—	812	49	18.2	200	643	199	416	643	17	286	Centralia East
—	1,500	1,600	40	16.0	67	4,750	3,183	1,567	4,750	73	1,270	Cooks Mills
20	—	2,125	28	—	—	279	190	72	279	3	49	Corinth
20	—	2,200	19	—	—	257	166	67	246	2	73	Crab Orchard
—	16,725	1,200	150	14.5	138	50,000	—	—	—	—	—	Crescent St. P. City
—	—	—	—	—	—	100,000	—	—	—	—	—	Crescent Mt. S. City
—	1,000	875	18	20.6	168	1,403	535	868	1,402	7	315	Eden South
—	1,691	1,925	145	17.5	18	7,437	1,043	6,295	7,437	13	875	Elbridge
4,222	—	350	47	21.5	216	7,089	2,300	4,636	7,089	38	2,046	Freeburg
113	—	510	28	16.0	326	152	32	116	152	5	64	Gillespie-Benld
—	3,200	800	120	12.0	426	12,586	5,209	6,293	12,586	121	2,642	Glasford
6,750	8,000	1,750	100	18.0	467	50,000	13,157	23,283	39,369	852	16,979	Herschler Gvl.
7,500	8,000	2,450	80	12.0	185	67,500	31,983	3	67,080	163	10,509	Herschler Mt. S.
—	3,000	2,200	58	15.0	82	17,500	6,856	10,134	17,360	55	2,695	Herschler-Northwest
4,000	—	3,150	100	16.0	250	8,957	4,704	4,250	8,957	47	1,578	Hillsboro
414	—	1,125	28	20.3	458	1,096	811	285	975	31	897	Hookdale
—	13,200	3,800	160	11.0	45	100,000	6,463	26,291	35,055	84	5,934	Hudson
—	6,500	670	120	10+	—	4,000	—	—	—	—	—	Hume
—	10,600	3,525	97	11.0	45	45,000	12,090	33,839	48,342	120	7,833	Lake Bloomington
—	14,300	3,800	100	10.7	37	100,000	7,914	31,309	41,746	84	5,492	Lexington
—	3,000	1,300	85	12.0	250	11,834	4,736	6,509	11,834	47	1,360	Lincoln
2,610	—	3,050	65	15.0	—	75,000	32,099	31,137	67,461	453	18,111	Loudon
—	13,370	3,950	116	11.0	15	200,000	30,374	84,205	122,087	597	25,550	Manlove
—	4,700	2,100	100	17.2	448	62,000	0	0	0	0	0	Media Gvl.
—	3,500	2,500	100	14.3	152	50,000	0	0	0	0	0	Media Mt. S.
—	224	2,302	18	—	—	747	35	60	98	4	100	Mills & Edwards
—	142	1,825	30	—	—	245	39	77	116	1	36	Edwards
—	1,650	1,975	105	16.5	25	7,277	1,467	5,685	7,277	20	1,013	Nevins
—	2,600	800	38	18.6	556	3,500	896	1,956	3,180	45	992	Pecatonica
—	—	2,425	100	18.0	704	50,000	0	4,626	5,050	26	424	Pontiac Gvl.
3,500	—	3,000	100	10.0	25	45,000	12,685	25,345	42,242	165	13,165	Pontiac Mt. S.
—	—	700	—	—	—	105	76	21	97	1	30	Richwoods
550	650	2,860	100	14.0	400+	5,603	1,686	3,900	5,603	48	1,464	St. Jacob
—	2,500	2,600	70	12.0	39	5,000	925	1,904	2,829	18	165	Sciota
—	1,850	2,000	95	15.2	246	11,122	5,115	6,007	11,122	73	2,858	Shanghai
—	496	1,860	91	17.3	47	5,064	1,064	3,920	5,064	13	798	State Line
1,287	—	800	33	20.8	183	3,090	1,270	1,820	3,072	55	1,843	Tilden
—	9,600	1,420	100	17.0	150	80,000	30,412	33,982	75,515	816	36,973	Troy Grove
—	—	4,000	—	—	—	60,000	0	4,425	4,756	16	561	Tuscola
1,500	7,000	1,800	115	18.0	1,220	150,000	5,857	38,738	49,057	220	11,981	Waverly St. P.
—	—	3,500	68	—	—							Waverly Gvl.

\*Million cubic feet

TABLE 8. Illinois oil field statistics, 1977

## Explanation of abbreviations and symbols

Field:	N, North; S, South; E, East; W, West; C, Consolidated; Cen, Central. Fields located in two or more counties have county names listed in order of oil discovery.
Age:	PC, Precambrian; CAM, Cambrian; ORD, Ordovician; SHK, Shakopee; STP, St. Peter; TRN, Trenton; SIL, Silurian; DEV, Devonian; DVS, Devonian-Silurian; MIS, Mississippian; PI-N, Pennsylvanian.
Kind of rock in pay zones:	D, dolomite; DS, sandy dolomite; L, limestone; LS, sandy limestone; OL, oolitic limestone; S, sandstone.
ABD:	Field abandoned.
REV:	Field revived.
Structure:	A, anticline; C, accumulation due to change in character of rock; D, dome; F, faulting; H, strata horizontal or nearly horizontal; L, lens; M, monocline; N, nose; R, reef; T, terrace; U, unconformity. Combinations of the letters are used when more than one factor applies.
+	Field listed in Table 9 (gas production).
H	Illinois portion only.
#	Acreage is included in the immediately preceding figure.
X	Correct entry not determinable.



TABLE 8. Illinois oil field statistics, 1977

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
A8 LAKE, GALLATIN, 8S, 10E																
			1947	80	2.5	120.4	9	0	0	2				M	MIS	2953
PENNSYLVANIAN	805	1957		40			3	0	0	35	S	10	M			
PALESTINE, MIS	1835	1954		10			1	0	0	36	S	5	MF			
WALTERSBURG, MIS	2000	1957		40			3	0	0	37	S	10	M			
RENAULT, MIS	2735			20			2	0	0	35	L	8	MF			
AUX VASES, MIS	2770			10			1	0	0	35	S	9	MF			
A8 LAKE SOUTH, GALLATIN, 9S, 10E																
AUX VASES, MIS	2798	1959		10	0.0	3.8	1	0	0	0	36	S	6	M	MIS	2982
				ABO 1963												
*A8 LAKE WEST, GALLATIN, 8-9S, 9-10E																
			1950	450	1.0	538.4	33	0	0	15				M	MIS	2964
PENNSYLVANIAN	725	1954		50			3	0	0	35	S	10	ML			
WALTERSBURG, MIS	2020	1956		300			19	0	0	37	S	20	ML			
TAR SPRINGS, MIS	2075	1958		30			2	0	0	38	S	10	ML			
CYPRESS, MIS	2425	1954		10			1	0	0	36	S	9	ML			
AUX VASES, MIS	2735			160			17	0	0	36	S	6	ML			
MCCLOSKEY, MIS	2830			10			1	0	0	38	L	2	MC			
*ADEN C, WAYNE, HAMILTON, 2-3S, 7E																
			1938	2410	54.1	13408.1	128	1	0	56				A	DEV	5434
AUX VASES, MIS	3200	1938		1570			64	0	0	39	S	10	A			
OHARA, MIS	3290	1943		2040			10	1	0	35	L	7	A			
SPAR MTN, MIS	3320	1943		#			6	0	0	35	LS	5	AC			
MCCLOSKEY, MIS	3350	1938		#			79	0	0	35	L	4	A			
SALEM, MIS	3735	1948		60			9	0	0	36	L	16	AC			
ULLIN, MIS	4132	1959		50			4	0	0	39	L	16	AC			
LINGLE, DEV	5182	1968		10			1	0	0		S	10				
OUTCH CREEK, DEV	5318	1959		30			3	0	0	40	S	10	A			
ADEN EAST, WAYNE, 2S, 7E																
MCCLOSKEY, MIS	3434	1961		10	0.0	0.0	1	0	0	0	39	OL	6		MIS	3552
				ABO 1961												
*ADEN SOUTH, HAMILTON, 3S, 7E																
			1945	340	6.4	848.0	28	0	0	8				A	DEV	5462
AUX VASES, MIS	3245	1946		170			9	0	0	39	S	8	AL			
OHARA, MIS	3310			340			2	0	0	37	L	7	AC			
SPAR MTN, MIS	3330			#			8	0	0	37	LS	8	AC			
MCCLOSKEY, MIS	3395	1945		#			17	0	0	38	L	9	AC			
*AKIN, FRANKLIN, 6S, 4E																
			1942	770	14.7	2432.1	60	1	3	16				A	MIS	4106
CYPRESS, MIS	2840	1942		220			14	0	1	35	0.14	S	10	AL		
AUX VASES, MIS	3100			530			41	1	1	37	0.12	S	22	AL		
OHARA, MIS	3100	1956		70			4	0	1	38	L	18	AC			
MCCLOSKEY, MIS	3270	1943		#			1	0	0	38	L	9	AC			
AKIN WEST, FRANKLIN, 6S, 4E																
			1948	120	6.6	233.1	9	0	0	7				A	DEV	5185
CYPRESS, MIS	2715	1950		30			2	0	0	35	S	8	AL			
OHARA, MIS	3050	1948		70			2	0	0	37	L	10	AC			
SPAR MTN, MIS	3080	1948		#			1	0	0		L	12	AC			
MCCLOSKEY, MIS	3130			#			3	0	0	39	L	4	AC			
SALEM, MIS	3663	1962		10			1	0	0	38	L	10				
ULLIN, MIS	3994	1962		20			2	0	0	37	L	10				
ALBION CEN, EDWARDS, 2S, 10E																
			1955	110	0.0	136.0	7	0	0	1					MIS	3510
OHARA, MIS	3350	1955		110			7	0	0	37	L	5				
MCCLOSKEY, MIS	3395			#			1	0	0		L	4				
*ALBION C W, EDWARDS, WHITE, 1-3S, 10-11E, 14W																
			1940	5690	190.1	29888.7	490	1	3	165				AM	DEV	5185
MANSFIELD, PEN	1650	1950		1950			6	0	0	28	S	5	MF			
BRIDGEPORT, PEN	1900			#			30	0	0	29	0.16	S	15	MF		
BIEHL, PEN	2000	1944		#			158	0	1	37	0.16	S	15	MF		
OEGONIA, MIS	2125			10			2	0	0	35	S	9	MF			
WALTERSBURG, MIS	2365	1949		690			67	0	0	36	S	16	AL			
TAR SPRINGS, MIS	2460	1944		140			10	0	0	37	S	5	AL			
HARDINSBURG, MIS	2635			70			6	0	0	36	S	10	A			
CYPRESS, MIS	2860			510			44	0	0	37	S	15	A			
BETHEL, MIS	2960			940			58	0	1	36	S	14	AF			
BENOIST, MIS	3000			190			14	0	0	34	S	13	AF			

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery—see Part II, p. 73-144)	Pay zone		Year of discovery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Completed to end of 1977	Completed in 1977	Abandoned 1977	Producing end of year	Gr. API	Sulfur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*ALBION C +, EDWARDS, WHITE, 1-3S, 10-11E, 14W																
(CONTINUED FROM PREVIOUS PAGE)																
AUX VASES, MIS	3045	1942	1630			114	0	1		37		S	18	AF		
OHARA, MIS	3110	1943	1780			11	0	0		40		L	5	AC		
SPAR MTN, MIS	3130		#			7	0	0		38		L	10	AC		
MCCLOSKEY, MIS	3200	1940	#			101	1	0		37		L	12	AC		
*ALBION EAST, EDWARDS, 2S, 14W																
		1943	1220	87.5	2123.0	89	0	1	50						MIS	3254
CYPRESS, MIS	2800		240			18	0	0		32		S	7	A		
BETHEL, MIS	2920		166			10	0	0		38		S	6	AL		
BENOIST, MIS	2925		120			18	0	0		38		S	10	AC		
AUX VASES, MIS	3020		300			18	0	0		38	0.14	S	17	AL		
OHARA, MIS	3100	1943	710			15	0	0		38		L	7	A		
SPAR MTN, MIS	3125	1947	#			18	0	1				L	7	A		
MCCLOSKEY, MIS	3155		#			14	0	0				L	7	A		
ALBION NORTHWEST, EDWARDS, 1S, 10E																
MCCLOSKEY, MIS	3300	1967	30	1.1	35.4	3	0	0	2			L	6		MIS	3400
ALBION WEST, EDWARDS, 3S, 10E																
		1953	40	3.1	5.1	3	1	0	2						MIS	3762
OHARA, MIS	3230	1976	40			2	1	0				L	8			
MCCLOSKEY, MIS	3375	1953	#			1	0	0				L	5			
ABO 1953, REV 1976																
*ALLENDALE, WARASH, LAWRENCE, 1-2N, 11-13W																
		1912	9620	228.0	22885.5	1136	6	4	329						ORO	5143
PLEASANTVIEW, PEN	660		6460			0	0	0				S	30	AM		
BRIDGEPORT, PEN	1070		#			0	0	0				S	12	AM		
BUCHANAN, PEN	1290		#			0	0	0				S	15	AM		
BIEHL, PEN	1450		#			716	3	2	33			S	20	AM		
JORDAN, PEN	1490		#			24	0	0				S	10	AM		
WALTERSBURG, MIS	1540		320			29	0	0	31			S	15	AM		
TAR SPRINGS, MIS	1600		250			22	0	0	30			S	20	AM		
HARDINSBURG, MIS	1780		10			2	0	0	34			S	10	AM		
CYPRESS, MIS	1920		1820			83	1	2	34			S	10	AM		
SAMPLE, MIS	1769		1270			11	0	0	35			S	X	AM		
BETHEL, MIS	2010		#			101	0	0	35			S	10	AM		
AUX VASES, MIS	2280		40			5	0	0	37			S	12	AM		
OHARA, MIS	2300		960			18	2	0				L	10	AM		
SPAR MTN, MIS	2300		#			12	0	0				LS	5	AM		
MCCLOSKEY, MIS	2300		#			28	0	0	36			L	8	AM		
ST LOUIS, MIS	2275	1967	20			2	1	0	39			L	15			
SALEM, MIS	2774	1966	50			5	0	0	39			L	10			
ULLIN, MIS	2806	1966	20			2	0	0	39			L	12			
ALMA, MARION, 4N, 2E																
		1941	60	0.0	82.0	6	0	0	0						DEV	3692
CYPRESS, MIS	1805		10			1	0	0	35			S	7	AL		
BENOIST, MIS	1945	1942	50			6	0	0	36			S	8	AL		
SPAR MTN, MIS	2085	1941	40			2	0	0	36	0.26		L	10	AC		
ARO																
AMITY, RICHLAND, 4N, 14W																
		1942	70	1.3	55.5	5	1	0	2						MIS	3873
AUX VASES, MIS	3060	1977	10			1	1	0				S	10			
MCCLOSKEY, MIS	2960	1942	70			5	1	0	36			OL	5	MC		
AMITY S, RICHLAND, 4N, 14W																
SPAR MTN, MIS	2890	1953	10	0.0	0.1	1	0	0	0	38		L	4		MIS	3010
ARO 1953																
AMITY W, RICHLAND, 4N, 14W																
AUX VASES, MIS	2925	1953	10	0.0	0.0	1	0	0	0	38		S	12		MIS	3100
ARO 1954																
ASHLEY, WASHINGTON, 2S, 1W																
BENOIST, MIS	1430	1953	210	7.7	470.8	15	0	0	14	30		S	7		DEV	3116
ASHLEY E, WASHINGTON, 2S, 1W																
BENOIST, MIS	1636	1969	60	3.1	59.7	5	0	0	5			S	6		MIS	1904
ASHMORE E, COLES, 13N, 14W																
(CONTINUED ON NEXT PAGE)																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test		
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)		
(CONTINUED FROM PREVIOUS PAGE)																	
ASHMORE E, COLES, 13N, 14W	PENNSYLVANIAN	415	1956	60	0.1	0.3	6	0	0	2	30	S	14		DEV	1226	
				ABO 1957, REV 1962													
ASHMORE S +, COLES, CLARK, 12N, 10-11E, 14W																	
	UNNAMED, PEN	1958		310	2.7	49.9	23	0	0	16					TRN	2260	
	MISSISSIPPIAN	475	1963	310			22	0	0	24		S	X	AL			
				20			1	0	0	38		L	17				
ASSUMPTION CEN, CHRISTIAN, 13N, 1E	DEVONIAN	2433	1961	10	0.0	0.0	1	0	0	0	38	L	4		SIL	2566	
				ABO 1961													
*ASSUMPTION C, CHRISTIAN, 13-14N, 1E																	
	BENOIST, MIS	1948		2460	75.1	10294.6	187	0	2	54				A	ORO	3070	
	SPAR MTN, MIS	1050	1949	590			46	0	0	36		S	13	A			
	LINGLE, DEV	1170	1949	220			17	0	0	40		S	4	AL			
		2300	1948	2300			126	0	2	38		L	8	A			
ASSUMPTION S, CHRISTIAN, 12N, 1E	LINGLE, DEV	2630	1951	50	0.5	22.5	3	0	0	1	39	L	15		SIL	2800	
AVA-CAMPBELL MILL +, JACKSON, 7S, 3-4W	CYPRESS, MIS	780	1916	140	0.0	25.0	16	0	0	0	36	S	18	A	TRN	3582	
				ABO 1943, REV 1956, ABO 1957													
BALOWIN, RANDOLPH, 4S, 6W	SILURIAN	1535	1954	30	0.2	11.4	3	0	0	1	32	L	X	R	TRN	2234	
BANNISTER, MARION, 2N, 3E	AUX VASES, MIS	2570	1973	10	0.0	8.6	1	0	0	1		S	5		DEV	4226	
*BARNHILL, WAYNE, WHITE, 2-3S, 8-9E																	
	AUX VASES, MIS	1939		2090	54.7	6187.3	180	7	0	66				A	DEV	5500	
	OMARA, MIS	3325	1943	1120			87	4	0	39		S	15	AL			
	SPAR MTN, MIS	3370		1190			9	0	0			OL	6	AC			
	MCCLOSKY, MIS	3400		#			11	0	0			LS	9	AC			
	ST LOUIS, MIS	3450	1939	#			76	2	0	38	0.17	OL	15	AC			
	SALEM, MIS	3520		10			1	0	0	38		L	7	AC			
		3795		200			9	2	0	39		L	8	AC			
*BARTELSON, CLINTON, 1-2N, 3W																	
	CARLYLE(CYP), MIS	1936		600	28.6	4144.1	113	0	0	48				O	STP	4212	
	SILURIAN	985	1936	420			76	0	0	36	0.20	S	15	O			
		2420	1939	380			38	0	0	42	0.27	L	12	R			
*BARTELSON E, CLINTON, 1N, 3W	SILURIAN	2550	1950	210	8.6	931.4	21	0	0	18	42	L	7	R	SIL	2788	
BARTELSON S, CLINTON, 1N, 3W	DEVONIAN	2475	1942	60	0.0	23.7	3	0	0	0	40	0.15	L	3	A	DEV	2652
				ABO 1962													
BARTELSON W, CLINTON, 1N, 3-4W																	
	CYPRESS, MIS	1945		290	2.7	96.0	21	0	0	13				A	SIL	2600	
	SILURIAN	960	1945	290			18	0	0	36		S	15	A			
		2439	1961	10			1	0	0	40		L	7	A			
*BEAUCOUP, WASHINGTON, 2S, 2W																	
	CLEAR CREEK, DEV	1951		280	1.1	379.8	14	0	0	10				A	TRN	4192	
	TRENTON, ORO	3050	1951	280			14	0	0	39		L	12	A			
		4095	1952	10			1	0	0	39		L	5	A			
*BEAUCOUP S, WASHINGTON, 2S, 2W	BENOIST, MIS	1430	1951	260	11.1	1049.2	22	0	0	12	35	S	9	AL	ORO	4170	

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*BEAVER CREEK, BOND, CLINTON, 3-4N, 2-3W																
BENOIST, MIS		1130	1942	180	2.7	284.9	17	0	0	6	34	0.25	S	6	A	SIL 2558
BEAVER CREEK N, BONO, 4N, 3W																
BENOIST, MIS		1115	1949	80	0.0	0.7	6	0	0	0	24		S	4	A	OEV 2556
ABO 1954, REV 1958, ABO 1964																
*BEAVER CREEK S +, CLINTON, BONO, 3-4N, 2-3W																
			1946	590	9.0	726.6	53	0	1	26					A	SIL 2606
CYPRESS, MIS		1005		20			2	0	0		36		S	20	A	
BETHEL, MIS		1076	1974	10			1	0	1				S	7		
BENOIST, MIS		1140	1946	560			50	0	0		35		S	5	A	
BECKEMEYER GAS +, CLINTON, 2N, 3W																
CYPRESS, MIS		1070	1956	10	0.0	0.0	1	0	0	0			S	23		SIL 2730
ABO 1958																
*BELLAIR, CRAWFORD, JASPER, 8N, 14W																
			1907	2230	X	X	543	1	0	72					AM	OEV 2732
(500 FT), PEN		560		2140			315	0	0		29		S	30	AM	
(800 FT), PEN		815		#			77	0	0		37		S	X	AM	
(900 FT), MIS		885		#			190	0	0		37		S	X	AM	
CYPRESS, MIS		950		70			5	1	0		36		S	4	AM	
BENOIST, MIS		1000		420			5	1	0		36		S	10	AM	
RENAULT, MIS		830		30			6	0	0		37		S	6	AM	
AUX VASES, MIS		800		220			11	0	0		38		S	X	AM	
OHARA, MIS		860		30			1	0	0		37		L	4	A	
CARPER, MIS		1748	1969	50			4	0	0				S	14		
SEE CLARK COUNTY DIV. FOR PRODUCTION																
BELLE PRAIRIE, HAMILTON, 4S, 6-7E																
MCCLOSKEY, MIS		3420	1940	300	13.2	1070.1	17	0	0	9	38	0.12	L	6	AC	OEV 5483
BELLE PRAIRIE W, HAMILTON, 4S, 5E																
ULLIN, MIS		4206	1959	10	0.0	0.5	1	0	0	0	37		L	6		MIS 4389
ABO 1960																
BELLE RIVE, JEFFERSON, 3S, 4E																
MCCLOSKEY, MIS		3085	1943	110	2.4	401.7	6	0	0	3	37	0.50	L	6	AC	MIS 4200
BELLMONT, WABASH, 1S, 13-14W																
			1951	30	0.0	73.0	4	0	0	0					M	MIS 3006
BETHEL, MIS		2650	1951	10		11.0	1	0	0		38		S	7	HL	
OHARA, MIS		2840	1951	20		62.0	3	0	0		40		L	7	MC	
ABO 1972																
*BEMAN, LAWRENCE, 3N, 11W																
			1942	530	1.8	325.2	34	0	1	8					A	OEV 3410
AUX VASES, MIS		1805		100			8	0	0		38		S	20	AL	
STE. G, MIS		1850	1942	440			30	0	1		38		L	7	AC	
BEMAN E, LAWRENCE, 3N, 10W																
			1947	110	0.0	116.0	7	0	0	0					A	MIS 1924
AUX VASES, MIS		1805	1947	30			3	0	0		38		S	20	AL	
STE. G, MIS		1860	1947	110			6	0	0		38		L	7	AC	
ABO 1960, REV 1965, ABO 1969																
BENNINGTON S, EDWARDS, 1N, 10E																
MCCLOSKEY, MIS		3240	1944	10	0.0	10.4	1	0	0	0	37		L	8	MC	MIS 3420
ABO 1946																
*BENTON, FRANKLIN, 6S, 2-3E																
			1941	2360	44.0	39965.3	268	0	0	86					A	TRN 6250
PENNSYLVANIAN		1700		20			2	0	0		33		S	9	AL	
TAR SPRINGS, MIS		2100	1941	2360			249	0	0		38		S	10	A	
AUX VASES, MIS		2752	1959	300			21	0	0		38		S	15	A	
OHARA, MIS		2804	1959	190			13	0	0				L	8	A	
MCCLOSKEY, MIS		2906	1960	#			5	0	0		37		OL	4	AC	
ST. LOUIS, MIS		2990	1960	10			1	0	0		38		L	6	A	
ULLIN, MIS		3705	1960	10			1	0	0		38		L	5	A	
*BENTON N, FRANKLIN, 5-6S, 2E																
			1941	810	12.4	3912.2	80	0	0	8					A	MIS 3700

(CONTINUED ON NEXT PAGE)

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- duc- ing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
*BENTON N, FRANKLIN, 5-6S, 2E																
CYPRESS, MIS	2460	1944		100			14	0	0		38		S	17	A	
PAINT CREEK, MIS	2501	1962		390			14	0	0		38		S	8		
BETHEL, MIS	2600	1942		#			21	0	0		38	0.15	S	20	AL	
AUX VASES, MIS	2685			190			15	0	0		39	0.15	S	10	A	
OMARA, MIS	2730			460			13	0	0		38	0.70	L	8	A	
SPAR MTN, MIS	2775	1941		#			8	0	0		36	0.15	S	6	A	
MCCLOSKY, MIS	2800			#			19	0	0		34		L	10	A	
*BERRY, SANGAMON, 15N, 3W																
DEVONIAN	1743	1962	1961	650	8.7	572.3	44	0	1	22	38		S	4		SIL 1964
SILURIAN	1736	1961		590			42	0	1		38		L	35		
*BERRYVILLE C, WABASH, EDWARDS, RICHLAND, 1-2N, 14W																
OMARA, MIS	2900	1943	1943	550	8.1	1623.2	31	0	0	7	39		L	6	M	MIS 3688
SPAR MTN, MIS	2850	1943		540			6	0	0				L	12	MC	
MCCLOSKY, MIS	2890	1947		#			13	0	0		36		L	10	MC	
SALEM, MIS	3370	1975		10			12	0	0				L	10	MC	
ULLIN, MIS	3605	1975		10			1	0	0				L	10		
BESSIE, FRANKLIN, 6S, 3E																
OMARA, MIS	2895	1943		10	2.1	145.1	1	0	0	1	39	0.15	L	10	MC	MIS 3457
BLACK BRANCH, SANGAMON, 15N, 4W																
SILURIAN	1600	1967		350	10.4	584.6	24	0	0	18	38		L	10		SIL 1744
BLACK BRANCH E +, SANGAMON, 15N, 4W																
SILURIAN	1720	1969		10	0.0	2.8	1	0	0	0			L	20		SIL 1755
				ABO 1974												
*BLACKLAND, MACON, CHRISTIAN, 15N, 1E-1W																
SILURIAN	1935	1953		380	0.6	492.6	41	0	1	3	39		L	12	MU	ORO 3780
BLACKLAND N, MACON, 16N, 1E																
SILURIAN	1948	1960		260	0.8	246.2	22	1	0	4	39		L	11	M	SIL 2164
BLACK RIVER, WHITE, 4S, 13W																
CLORE, MIS	1865	1952		10	0.0	36.4	1	0	0	0	36		S	6		MIS 3071
				ABO 1974												
BLAIRSVILLE W, HAMILTON, 4S, 7E																
AUX VASES, MIS	3250	1948	1948	180	0.0	408.3	10	0	0	1				A		MIS 3507
SPAR MTN, MIS	3345	1948		30			3	0	0							
MCCLOSKY, MIS	3405	1951		160			1	0	0		37		L	6	AC	
				#			10	0	0				L	8	AC	
BLUFORD, JEFFERSON, 2S, 4E																
MCCLOSKY, MIS	3060	1961		30	1.7	156.1	2	0	0	1	38		OL	6		MIS 3833
BOGOTA, JASPER, 6N, 9E																
SPAR MTN, MIS	3090		1943	190	1.1	533.8	10	0	0	1				A		MIS 3234
MCCLOSKY, MIS	3110	1943		190			1	0	0				L	8	AC	
				#			9	0	0	39			L	7	A	
BOGOTA N, JASPER, 6N, 9E																
MCCLOSKY, MIS	3080	1949		20	0.0	0.0	2	0	0	1	37		L	3		MIS 3647
				ABO 1950, REV 1973												
BOGOTA S, JASPER, 5-6N, 9E																
MCCLOSKY, MIS	3075	1944		300	1.9	543.2	23	0	0	3	37		L	8	MC	MIS 3712
BOGOTA W, JASPER, 6N, 9E																
MCCLOSKY, MIS	3080	1966		10	0.0	0.0	1	0	0	0	37		O	6		MIS 3655
							ABO 1967									



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone	Deepest test		
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)		Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)
*BONE GAP C, EDWARDS, 1S, 10-11E, 14W																
		1941	1210	27.7	2584.5	69	1	0	24						MIS	4240
	PENNSYLVANIAN	2110 1952	10			1	0	0		32		S	8	AL		
	WALTERSBURG, MIS	2310 1951	170			17	0	0		35		S	20	A		
	CYPRESS, MIS	2710 1947	100			7	0	0		37		S	10	A		
	BETHEL, MIS	2880 1952	60			5	0	0		39		S	14	AL		
	AUX VASES, MIS	3020 1947	10			1	0	0		36		S	9	AL		
	OHARA, MIS	3040 1948	920			9	0	0		34		L	5	AC		
	SPAR MTN, MIS	3045 1947	#			7	1	0		35		L	5	AC		
	MCCLOSKEY, MIS	3200 1941	#			24	0	0		38	0.33	L	6	AC		
BONE GAP E, EDWARDS, 1S, 14W																
		1951	170	18.6	69.1	13	1	0	10						MIS	4000
	OHARA, MIS	2980 1951	50			4	1	0				L	10	MC		
	MCCLOSKEY, MIS	3050	#			1	0	0		36		L	5	MC		
	SALEM, MIS	3555 1974	120			9	1	0				L	4			
	ABD 1956, REV 1974															
BONE GAP W, EDWARDS, 1S, 10E																
	STE, GEN, MIS	3290 1954	100	0.1	31.8	5	0	0	3	36		L	5		MIS	3504
	ABD 1975, REV 1964															
*BOULOER +, CLINTON, 2-3N, 2W																
		1941	580	0.0	8120.0	55	0	0	0						TRN	3813
	BENOIST, MIS	1190 1942	500			33	0	0		37		S	20	U		
	GENEVA, DEV	2630 1941	470			22	0	0		28	0.33	D	7	R		
	SILURIAN	2700 1963	40			1	0	0		40		L	4			
	ABD 1965															
BOULOER E +, CLINTON, 3N, 1W																
	DEVONIAN	2850 1955	50	5.3	224.0	5	0	0	3	39		L	5		DEV	2946
*BOURBON C, DOUGLAS, 15N, 7E																
		1956	1050	4.0	1803.4	93	0	0	28							2709
	SPAR MTN, MIS	1600 1956	1050			92	0	0		34		LS	12	NC		
	MCCLOSKEY, MIS	1715 1976	#			1	0	0				L	5			
BOURBON S, DOUGLAS, 15N, 7E																
	SPAR MTN, MIS	1693 1960	50	1.1	6.8	3	1	0	2	34		S	12	NC	MIS	1780
	ABD 1964, REV 1976															
BOWYER, RICHLAND, 5N, 14W																
		1958	20	0.0	11.7	2	0	0	0						MIS	2950
	SPAR MTN, MIS	2883 1958	10			1	0	0		36		S	X			
	MCCLOSKEY, MIS	2876 1971	10			1	0	0				L	5			
	ABD 1967, REV 1971, ABD 1972															
*BOYD, JEFFERSON, 1S, 1-2E																
		1944	1490	17.8	14882.4	127	1	0	39						TRN	5400
	BENOIST, MIS	2060 1944	1450			114	0	0		35	0.14	S	19	A		
	AUX VASES, MIS	2130 1944	660			48	0	0		37		S	15	A		
	OHARA, MIS	2230 1945	30			24	0	0		39		L	7	AC		
	TRENTON, ORD	5000 1967	80			5	1	0					X			
BROUGHTON, HAMILTON, 6S, 7E																
		1951	80	40.8	46.5	5	4	0	4						MIS	4446
	MCCLOSKEY, MIS	3275 1951	20			2	1	0		37		L	5			
	ULLIN, MIS	4190 1977	60			3	3	0				L	10			
	ABD 1954, REV 1977															
BROUGHTON S, SALINE, 7S, 7E																
		1951	20	0.0	0.1	2	0	0	0						MIS	3300
	TAR SPRINGS, MIS	2315 1974	10			1	0	0				S	7			
	MCCLOSKEY, MIS	3215 1951	10			1	0	0		38		L	4			
	ABD 1952, REV 1974, ABD 1976															
*BROWN, MARION, 1N, 1E																
	CYPRESS, MIS	1670 1910	120	1.7	154.4	12	0	0	10	36		S	X	N	MIS	2036
*BROWNS, EDWARDS, WABASH, 1-2S, 14W																
		1943	1060	30.1	2758.7	69	1	0	32						DEV	5200
	BIHEL, PEN	1870 1962	10			1	0	0		32		S	8			
	TAR SPRINGS, MIS	2365 1947	40			1	0	0		36		S	14	AL		
	CYPRESS, MIS	2640 1943	380			26	1	0		36	0.18	S	13	A		
	BETHEL, MIS	2785 1944	80			5	0	0		39		S	12	AL		
(CONTINUED ON NEXT PAGE)																

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County Location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducting end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
*BROWNS, EDWARDS, WABASH, 1-2S, 14W																
AUX VASES, MIS	2965			10			1	0	0		36		S	7	AL	
OHARA, MIS	2965	1946		770			13	0	0		34		L	4	AC	
SPAR MTN, MIS	2975	1947		#			1	0	0				L	3	AC	
MCCLOSKEY, MIS	3000	1944		#			35	0	0		38		L	6	A	
*BROWNS E, WABASH, 1-2S, 14W																
PENNSYLVANIAN		1946		850	7.0	2945.1	76	2	0	17					MIS	3729
CYPRESS, MIS	1844	1963		10			1	0	0		32		S	X		
SPAR MTN, MIS	2570	1946		790			72	0	0		36		S	13	ML	
SALEM, MIS	2950	1977		40			2	2	0				S	5		
	3420	1976		10			2	1	0				L	20		
BROWNS S, EDWARDS, 2S, 14W																
WALTERSBURG, MIS		1943		120	21.8	116.2	11	0	0	8					N	MIS 3670
BETMEL, MIS	2330	1976		10			1	0	0				S	10		
AUX VASES, MIS	2850	1943		60			5	0	0		38		S	15	NL	
OHARA, MIS	2950	1947		40			5	0	0		36		S	8	NL	
	3020	1976		20			2	0	0				L	6		
ABO 1968, REV 1970																
BRUBAKER, MARION, 3N, 3E																
SPAR MTN, MIS		1973		170	58.5	255.3	11	2	0	11					SIL	5200
MCCLOSKEY, MIS	2341	1975		50			2	0	0				S	20		
ST LOUIS, MIS	2395	1975		#			1	0	0				OL	5		
SALEM, MIS	2550	1976		40			3	2	0				L	46		
DEVONIAN	2765	1974		10			1	0	0				O	7		
	3820	1973		70			4	0	0		34		L	1		
BUCKHORN, BROWN, 1-2S, 4W																
SILURIAN		1961		50	0.0	0.0	5	0	0	4	37		O	3	SIL	705
ABO 1964, REV 1973																
BUCKNER, FRANKLIN, 6S, 2E																
AUX VASES, MIS	2601	1963		80	3.3	76.2	6	0	0	4	38		S	12	MIS	3060
BULPITT S, CHRISTIAN, 13N, 3W																
DEV-SIL		1911	1962	60	0.0	3.4	4	0	0	0	38		L	15	OVS	1990
ABO 1969																
*BUNGAY C, HAMILTON, 4S, 7E																
RENAULT, MIS		1941		3260	63.1	14279.9	254	0	0	70					A	DEV 5566
AUX VASES, MIS	3270			550			22	0	0		39		S	10	AL	
OHARA, MIS	3295	1941		2740			195	0	0		39	0.24	S	15	AL	
SPAR MTN, MIS	3335			330			4	0	0				L	8	AC	
MCCLOSKEY, MIS	3400	1943		#			3	0	0				L	8	AC	
ULLIN, MIS	3425	1943		#			16	1	0		36	0.24	L	8	AC	
	4190	1959		10			1	0	0		38		L	10	AC	
BURNT PRAIRIE S, WHITE, 4S, 9E																
AUX VASES, MIS		1947		30	0.2	30.7	4	0	0	1					MIS	3565
OHARA, MIS	3330			10			1	0	0		37		S	24		
MCCLOSKEY, MIS	3415	1947		30			1	0	0		38		L	6		
	3460			#			2	0	0				L	4		
CALMOUN CEN, RICHLAND, 2N, 10E																
SPAR MTN, MIS		1950		30	0.0	0.5	3	0	0	0					M	MIS 3533
MCCLOSKEY, MIS	3245			30			2	0	0				L	6	MC	
	3280	1950		#			1	0	0		37		L	3	MC	
ABO 1952, REV AND ABO 1959																
*CALMOUN C, RICHLAND, WAYNE, 2-3N, 9-10E																
OHARA, MIS		1944		1980	15.3	4122.1	109	1	0	15					A	MIS 4039
SPAR MTN, MIS	3140	1944		1970			22	0	0		39		OL	9	A	
MCCLOSKEY, MIS	3160			#			25	0	0		37		OL	6	A	
ST LOUIS, MIS	3180	1944		#			63	1	0		39	0.15	OL	10	A	
SALEM, MIS	3370	1967		10			1	0	0		39		L	9		
	3730	1967		20			2	0	0		39		L	8		
*CALMOUN E, RICHLAND, 2N, 10-11E																
MCCLOSKEY, MIS		3265	1950	150	0.0	330.6	9	0	1	0	39		L	5	MC	MIS 3380
ABO 1977																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
CALMOUN N, RICHLAND, 3N, 10E																
			1944	60	0,1	81,7	4	0	0	2				A	MIS	3280
	SPAR MTN, MIS	3155	1944	60			1	0	0				LS	10	A	
	MCCLOSKY, MIS	3170	1944	#			4	0	0		36		OL	11	A	
*CALMOUN S, WAYNE, RICHLAND, EDWARDS, 1-2N, 9E																
			1953	570	25,0	688,4	34	1	1	12						MIS 4152
	AUX VASES, MIS	3175	1953	20			2	0	0		38		L	5		
	OHARA, MIS	3232	1963	550			4	0	0				L	8		
	SPAR MTN, MIS	3224	1962	#			17	1	0				L	5		
	MCCLOSKY, MIS	3209	1961	#			20	0	1		37		OL	6		
	ABO 1953, REV 1961															
CARLINVILLE +, MACOUPIN, 9N, 7W																
	UNNAMEO, PEN	380	1909	40	0,0	X	8	0	0	2	28		S	X	A	MIS 1380
	ABO 1925, REV 1942															
CARLINVILLE N +, MACOUPIN, 10N, 7W																
	POTTSVILLE, PEN	440	1941	100	0,0	1,0	16	0	0	0	20	0,35	S	10		TRN 1970
	ABO 1954															
CARLINVILLE S, MACOUPIN, 9N, 7W																
	PENNSYLVANIAN	539	1958	10	0,0	0,0	1	0	0	0	26		S	X		PEN 1020
	ABO 1964															
*CARLYLE, CLINTON, 2N, 3W																
			1911	1310	21,0	4187,9	202	3	4	29					A	STP 4120
	GOLCONDA, MIS	900	1952	10			7	1	0		35		L	10	AC	
	CARLYLE(CYP), MIS	1035	1911	1300			200	2	4		35	0,26	S	20	AL	
CARLYLE E, CLINTON, 2N, 2W																
	BENOIST, MIS	1197	1963	10	0,0	0,0	1	0	0	0	34		S	4		MIS 1245
	ABO 1972															
*CARLYLE N, CLINTON, 3N, 3W																
	BENOIST, MIS	1150	1950	530	13,7	918,0	45	0	0	31	34		S	4	AL	DEV 2558
CARLYLE S, CLINTON, 1N, 3W																
	CYPRESS, MIS	1075	1951	20	0,0	2,0	2	0	0	0	35		S	4		MIS 1194
	ABO 1953															
*CARM, WHITE, 5S, 9E																
			1940	250	2,3	397,4	21	0	0	3					M	MIS 3546
	PENNSYLVANIAN	1210		10			1	0	0		32		S	10	ML	
	CYPRESS, MIS	2800		100			8	0	0		38		S	15	ML	
	AUX VASES, MIS	3145		50			5	0	0		37		S	8	ML	
	MCCLOSKY, MIS	3150	1940	110			8	0	0		35		OL	6	MC	
	ABO 1949, REV 1952															
CARM N, WHITE, 5S, 9E																
			1942	80	2,0	294,8	6	0	0	3					A	MIS 3452
	CYPRESS, MIS	2940		20			1	0	0		38		S	13	AF	
	SAMPLE, MIS	3080	1954	10			1	0	0		37		S	12	AF	
	AUX VASES, MIS	3270	1942	60			5	0	0		36	0,14	S	14	AF	
*CASEY, CLARK, 10-11N, 14W																
			1906	3030	X	X	511	0	1	223					AM	TRN 2608
	UPPER GAS, PEN	265		2720			43	0	0		32		S	X	AM	
	LOWER GAS, PEN	300		#			86	0	1		30		S	X	AM	
	CASEY, PEN	445		#			372	0	0		35		S	10	AM	
	CARPER, MIS	1300		250			20	0	0		38		S	50	AM	
	SEE CLARK COUNTY DIV FOR PRODUCTION															
*CENTERVILLE, WHITE, 4S, 9E																
			1940	190	0,7	532,3	13	0	0	1					N	MIS 3919
	AUX VASES, MIS	3240	1953	10			1	0	0		37		S	6	NL	
	OHARA, MIS	3310		190			6	0	0		38		L	10	NC	
	SPAR MTN, MIS	3370		#			2	0	0				L	8	NC	
	MCCLOSKY, MIS	3370	1940	#			6	0	0		37	0,17	OL	4	NC	
*CENTERVILLE E, WHITE, 3-4S, 9-10E																
			1941	1270	43,6	8456,3	136	0	1	60					A	MIS 4092
	PALESTINE, MIS	2225	1950	20			2	0	0		35		S	3	ALF	
	TAR SPRINGS, MIS	2500		820			35	0	0		38	0,20	S	24	ALF	
(CONTINUED ON NEXT PAGE)																

(CONTINUED ON NEXT PAGE)



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*CENTERVILLE E, WHITE, 3-4S, 9-10E	(CONTINUED FROM PREVIOUS PAGE)															
MARDINSBURG, MIS	2615	1950		40			1	0	0		36		S	22	ALF	
CYPRESS, MIS	2915	1941		640			47	0	1		37		S	6	ALF	
BETHEL, MIS	2990	1942		220			20	0	0		38		S	20	ALF	
AUX VASES, MIS	3075			530			38	0	0		37		S	21	ALF	
OHARA, MIS	3175			320			4	0	0		36		OL	5	ACF	
SPAR MTN, MIS	3185			#			1	0	0				LS	6	ACF	
MCCLOSKEY, MIS	3230			#			16	0	0		37		OL	7	ACF	
CENTERVILLE N, WHITE, 3S, 10E																
BETHEL, MIS	2990	1947		10	0.0	0.0	1	0	0	0	38		S	13	ML MIS 3332	
				ABO 1948												
CENTERVILLE N E, WHITE, 3S, 10E																
BETHEL, MIS	3055	1955		10	0.0	5.6	1	0	0	0	38		S	14	MIS 3407	
				ABO 1959												
*CENTRAL CITY, MARION, 1N, 1E																
PENNSYLVANIAN	826	1964		130	3.6	72.6	12	0	1	10	33		S	10	MIS 1942	
*CENTRALIA, CLINTON, MARION, 1-2N, 1E, 1W																
	1937			2980	130.6	57336.7	1021	0	2	237					ORO 4170	
PETRO, PEN	765	1958		30			4	0	0		32		S	X	A	
CYPRESS, MIS	1200			1530			57	0	1		37	0.20	S	12	A	
BENOIST, MIS	1355	1937		2510			577	0	1		38	0.17	S	20	A	
DEVONIAN	2870	1939		2610			319	0	0		40	0.38	L	9	A	
TRENTON, ORO	3930	1940		1100			59	0	0		40		L	22	A	
CENTRALIA W, CLINTON, 1N, 1W																
	1940			90	0.9	419.8	10	0	0	1				N	DEV 3021	
CYPRESS, MIS	1308	1960		10			1	0	0		35		S	4	N	
BENOIST, MIS	1440	1940		90			9	0	0		38	0.17	S	9	N	
CHESTERVILLE, DOUGLAS, 15N, 7E																
SPAR MTN, MIS	1780	1956		50	0.2	36.1	5	0	0	1	39		LS	8	ML MIS 1829	
*CHESTERVILLE E, DOUGLAS, 14-15N, 7-8E																
SPAR MTN, MIS	1720	1957		400	0.0	1164.4	41	0	0	0	39		S	10	NC MIS 1785	
				ABO 1974												
CHRISTOPHER S, FRANKLIN, 7S, 1E																
	1964			30	0.0	9.9	3	0	0	0					MIS 2820	
AUX VASES, MIS	2620	1964		30			3	0	0		38		S	A		
OHARA, MIS	2690	1964		10			1	0	0		37		L	10		
							ABO 1969									
CLAREMONT*, RICHLAND, 3N, 14W																
	1950			100	0.0	20.2	8	0	0	0					MIS 3340	
SPAR MTN, MIS	3200	1950		100			5	0	0				S	5		
MCCLOSKEY, MIS	3218	1969		#			3	0	0				L	4		
				ABO 1971												
CLARK COUNTY DIV, CLARK, COLES, CRAWFORD, CUMBERLAND, JASPER																
	1900			26870	284.3	86060.6	5784	32	6	1596					ORO 4519	
							INCL BELLAIR CASEY JOHNSON N,S MARTINSVILLE SIGGINS WESTFLO YORK									
CLARKSBURG, SHELBY, 10N, 4E																
AUX VASES, MIS	1770	1946		50	5.8	84.5	5	0	0	2	36		S	6	A DEV 3206	
*CLAY CITY C, CLAY, WAYNE, RICHLAND, JASPER, 1-7N, 1-2S, 6-11E																
	1937			94070	3474.1	311866.8	6345	87	61	2226					PC 11614	
WALTERSBURG, MIS	2175	1952		10			1	0	0		36		S	6	AL	
TAR SPRINGS, MIS	2560	1949		130			8	0	0		38		S	15	AL	
CYPRESS, MIS	2635	1937		8110			568	2	4		36		S	15	AL	
BETHEL, MIS	2800			230			20	0	0		39		S	15	AL	
AUX VASES, MIS	2940	1942		30700			2078	27	23		38		S	15	AL	
OHARA, MIS	3020			64850			244	6	2		38		OL	5	AC	
SPAR MTN, MIS	3030			#			636	11	4		38		LS	8	AC	
MCCLOSKEY, MIS	3050	1937		#			3040	25	23		39		OL	10	AC	
ST. LOUIS, MIS	3025	1949		2690			227	4	5		38		L	3	A	
SALEM, MIS	3590	1950		4830			314	37	8		39		L	10	A	
ULLIN, MIS	3600	1952		260			20	0	0		40		L	17	A	
LINGLE, DEV	4350	1949		20			1	0	0		39		L	10	A	

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
CLEAR LAKE E, SANGAMON, 16N, 4W																
----- SILURIAN -----																
		1596	1970	40	3,3	23,5	2	0	1	1	25		L	12	SIL	1653
CLIFFORD, WILLIAMSON, 8S, 1E																
-----																
	AUX VASES, MIS	2330	1957	40	0,0	15,0	2	0	0	0					MIS	2625
	SPAR MTN, MIS	2470	1957	40			2	0	0		38		S	7		
	MCCLOSKEY, MIS	2540	1957	20			1	0	0				LS	7		
				#			1	0	0		38		L	5		
				ARO 1965												
*COIL, WAYNE, 1S, 5E																
-----																
			1942	460	62,6	2959,8	32	6	0	21					MIS	3565
	AUX VASES, MIS	2910	1942	310			22	1	0		39	0,12	S	10	A	
	MCCLOSKEY, MIS	3065	1942	10			1	0	0		38		OL	15	AC	
	ST LOUIS, MIS	3021	1967	100			6	0	0				L	9		
	SALEM, MIS	3510	1977	70			5	5	0				L	14		
COIL N, WAYNE, 1N-1S, 5E																
-----																
	AUX VASES, MIS	2841	1958	60	2,6	224,1	6	0	0	3	39		S	X	MIS	3077
*COIL W, JEFFERSON, 1S, 4E																
-----																
			1942	510	17,5	1155,5	45	5	0	17					MIS	3666
	AUX VASES, MIS	2720	1944	180			15	0	0		39		S	15	AL	
	OHARA, MIS	2790	1942	220			11	0	0				L	7	AC	
	SPAR MTN, MIS	2805		#			2	0	0				L	X	AC	
	MCCLOSKEY, MIS	2880	1942	#			13	0	0		38		L	8	AC	
	ST LOUIS, MIS	3040	1967	160			15	0	0		39		L	7		
	SALEM, MIS	3346	1961	100			8	5	0		37		L	10	A	
COLLINSVILLE, MADISON, 3N, 8W																
----- SILURIAN -----																
		1305	1909	40	0,0	1,0	6	0	0	0	37		L	20	ML	STP
					ARO 1921											
*COLMAR-PLYMOUTH, MANCOCK-MCCONOUGH, 4-5N, 4-5W																
-----																
	HOING, OEV	450	1914	2520	27,9	4975,4	505	0	0	67	35	0,38	S	14	AL	SMK
*CONCORD C, WHITE, 6S, 10E																
-----																
			1942	1960	59,5	8220,9	178	10	3	58					OEV	5313
	TAR SPRINGS, MIS	2270	1943	350			26	0	0		36		S	11	AL	
	HAROLDSBURG, MIS	2510	1954	350			30	0	0		36		S	7	A	
	CYPRESS, MIS	2625	1944	270			19	0	0		37		S	10	AL	
	AUX VASES, MIS	2905	1942	670			49	0	1		36	0,15	S	14	AL	
	OHARA, MIS	2930	1943	1080			2	0	0				L	8	AC	
	SPAR MTN, MIS	3035		#			3	0	0				L	8	AC	
	MCCLOSKEY, MIS	2990		#			56	0	1		37		L	10	AC	
	ST LOUIS, MIS	3370	1976	100			8	6	2				L	7		
	ULLIN, MIS	3900	1975	170			7	5	0				L			
CONCORD E C, WHITE, 6-7S, 10E																
-----																
			1942	420	3,5	889,6	39	0	1	13					MIS	3125
	WALTERSBURG, MIS	2140		40			4	0	1		33		S	10	A	
	TAR SPRINGS, MIS	2175		70			5	0	0		36		S	4	A	
	CYPRESS, MIS	2540		190			18	0	0		38		S	6	A	
	RENAULT, MIS	2800		20			2	0	0		36		L	6	A	
	AUX VASES, MIS	2825		70			7	0	0		36		S	12	A	
	OHARA, MIS	2895		120			3	0	0				L	6	AC	
	SPAR MTN, MIS	2895		#			5	0	0				S	5	AC	
	MCCLOSKEY, MIS	2965		#			3	0	0		37		L	2	AC	
*COOKS MILLS C +, COLES, COUGLAS, 13-14N, 7-8E																
-----																
			1941	3100	11,0	3062,8	248	0	1	54					OEV	3059
	CYPRESS, MIS	1600	1955	10			1	0	0		39		S	20	A	
	AUX VASES, MIS	1765	1941	10			2	0	0		37		S	15	A	
	SPAR MTN, MIS	1800	1946	3040			240	0	0		37		S	9	A	
	MCCLOSKEY, MIS	1840	1955	#			1	0	0				L	4	A	
	CARPER, MIS	2700	1963	20			1	0	0		38		S	5		
	DEVONIAN	2867	1963	40			4	0	1		37		L	3		
*COROES, WASHINGTON, 3S, 3W																
-----																
	BENOIST, MIS	1260	1939	1630	51,6	10183,4	155	0	0	37	36	0,19	S	14	A	TRN

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test		
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone			
															Depth (ft)		
CORINTH, WILLIAMSON, 33, 4E																	
			1957	300	46.0	496.6	19	0	1	17					MIS	3550	
	AUX VASES, MIS	2385	1957	290			18	0	1		38	S	10				
	OMARA, MIS	2929		40			1	0	0		33	L	X				
	SPAR MTN, MIS	2985	1957	#			2	0	0		33	L	10				
CORINTH E, WILLIAMSON, 33, 4E																	
	MCCLOSKEY, MIS	3035	1957	10	0.0	10.6	1	0	0	0	38	L	10		MIS	3113	
				A80	1960												
CORINTH N, WILLIAMSON, 33, 4E																	
	AUX VASES, MIS	2935	1957	10	0.0	3.7	1	0	0	0	36	S	16		MIS	3180	
				A80	1960												
CORINTH S, WILLIAMSON, 33, 4E																	
	CYPRESS, MIS	2350	1972	10	0.6	7.2	1	0	0	0		S	8		MIS	2820	
				A80	1975												
COTTAGE GROVE, SALINE, 33, 7E																	
	OMARA, MIS	2770	1955	10	0.0	12.5	1	0	0	0	38	L	X		MIS	2977	
				A80	1963												
COULTERVILLE N, WASHINGTON, 33, 5W																	
	SILURIAN	2290	1958	50	0.4	35.7	5	0	0	3	42	L			ORO	3204	
*COVINGTON S, WAYNE, 23, 6E																	
			1943	510	7.2	476.1	18	0	0	2					OEV	5300	
	MCCLOSKEY, MIS	3310	1943	420			12	0	0		36	0.18	L	5	AC		
	ST. LOUIS, MIS	3361	1962	10			1	0	0		36	L	4				
	ULLIN, MIS	4148	1960	80			5	0	0		36	L	12	AC			
CRAIG, PERRY, 43, 4W																	
	TRENTON, ORO	3650	1948	10	0.0	2.9	2	0	0	0	35	L	20	A	ORO	3750	
				A80	1951, REV 1965, A80	1967											
CRAVAT, JEFFERSON, 13, 1E																	
	BENOIST, MIS	2070	1939	120	0.3	382.9	11	0	0	6	34	0.23	S	10	A	OEV	3850
CRAVAT W, JEFFERSON, 13, 1E																	
			1956	140	1.8	135.2	15	0	0	14					MIS	2382	
	PENNSYLVANIAN	1045	1956	130	1.8	135.2	14	0	0		32	S	10				
	BETHEL, MIS	2070	1960	10	0.0	0.0	1	0	0			S	10				
CROSSVILLE, WHITE, 43, 10E																	
			1946	110	0.0	16.0	11	0	0	0					MIS	3293	
	BETHEL, MIS	2880	1948	40			3	0	0		38	S	9	ML			
	AUX VASES, MIS	3030	1956	30			3	0	0		37	S	20	ML			
	OMARA, MIS	3100		80			1	0	0			L	3	MC			
	MCCLOSKEY, MIS	3120	1946	#			4	0	0		38	L	5	MC			
				A80	1952, REV 1956, A80	1958											
*CROSSVILLE W, WHITE, 43, 10E																	
			1952	240	0.0	375.5	17	0	0	0					MIS	3500	
	CYPRESS, MIS	2810	1973	10			1	0	0			S	18				
	AUX VASES, MIS	3030	1952	130			9	0	0		37	S	8	ML			
	OMARA, MIS	3110	1958	150			1	0	0		37	L	X	M			
	SPAR MTN, MIS	3150	1958	#			3	0	0			L	X	M			
	MCCLOSKEY, MIS	3185	1956	#			7	0	0		38	L	X	MC			
				A80	1953, REV 1956, A80	1975											
OAMLGREN, HAMILTON, 33, 5E																	
			1941	620	1.3	1213.9	45	0	0	2					OEV	5299	
	MCCLOSKEY, MIS	3300	1941	620			44	0	0		37	0.16	L	11	A		
	ULLIN, MIS	4110	1956	10			1	0	0		39	L	15	A			
OAMLGREN W, JEFFERSON, 43, 4E																	
	ULLIN, MIS	4019	1960	20	0.0	30.5	2	0	0	0	38	L	6		OEV	5245	
				A80	1966												
*DALE C, FRANKLIN, HAMILTON, SALINE, 5-7S, 4-7E																	
			1940	13460	284.4	99504.5	1613	1	9	216					PC	13051	
	TAR SPRINGS, MIS	2430	1943	480			41	0	0		36	S	25	A			
(CONTINUED ON NEXT PAGE)																	

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells			Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. fur °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)
*DALE C, FRANKLIN, HAMILTON, SALINE, 5-7S, 4-7E (CONTINUED FROM PREVIOUS PAGE)															
-----															
	HARDINSBURG, MIS	2480		120			12	0	0		38		S	10	A
	CYPRESS, MIS	2700	1940	1570			126	0	0		39		S	15	A
	BETHEL, MIS	2975		3460			285	0	0		38	0.19	S	18	A
	AUX VASES, MIS	3150	1945	16590			1309	0	6		37	0.15	S	20	A
	OHARA, MIS	3110		3770			109	1	0		38	0.22	L	10	A
	SPAR MTN, MIS	3130		#			14	0	0		38		LS	7	A
	MCCLOSKY, MIS	3150	1940	#			146	0	3		36	0.19	L	7	A
	ST. LOUIS, MIS	3163	1965	60			6	0	0		39		L	X	
DAWSON, SANGAMON, 16N, 3W															
-----															
	SILURIAN	1636	1971	10	0.0	0.0	1	0	0	0			L	10	SIL 1705
				ARO 1972											
DECATUR, MACON, 16-17N, 2E															
-----															
	SILURIAN	2000	1953	110	0.0	15.0	6	0	0	0	37		L	7	MU ORO 2800
				ARO 1959											
DECATUR N, MACON, 17N, 3E															
-----															
	SILURIAN	2200	1954	10	0.0	0.1	1	0	0	0	38		L	10	MU SIL 2240
				ARO 1955											
*DEERING CITY, FRANKLIN, 7S, 3E															
-----															
		1957		110	1.9	320.6	8	0	0	6					MIS 3146
	AUX VASES, MIS	2810	1957	80			6	0	0		38		S	20	
	MCCLOSKY, MIS	2913	1963	30			2	0	0		34		OL	4	
DEERING CITY E, FRANKLIN, 7S, 3E															
-----															
	MCCLOSKY, MIS	2965	1974	10	1.5	6.1	1	0	0	1			L	7	MIS 3117
*DIVIOE C, JEFFERSON, 1S, 3-4E															
-----															
		1943		3850	124.6	11111.7	263	2	2	129					DEV 4700
	AUX VASES, MIS	2620	1947	170			10	0	0		38		S	10	AL
	OHARA, MIS	2700	1944	2570			8	0	0				L	10	AC
	SPAR MTN, MIS	2700	1945	#			20	0	0		38		LS	6	A
	MCCLOSKY, MIS	2750	1943	#			157	0	2		37	0.21	L	6	AC
	ST. LOUIS, MIS	2840	1955	260			27	0	0		37		L	7	AC
	SALEM, MIS	3190	1960	1270			85	2	0		37		L	10	AC
DIVIOE S, JEFFERSON, 2S, 3-4E															
-----															
	MCCLOSKY, MIS	2880	1948	300	0.0	497.2	16	0	0	1	37		L	5	MIS 3575
DIX S, JEFFERSON, 1S, 2E															
-----															
	BENOIST, MIS	1950	1941	20	0.0	13.4	2	0	0	0	35		S	8	N MIS 2283
				ARO 1946											
*DOLLVILLE, SHELBY, 12N, 2E															
-----															
	BETHEL, MIS	1509	1961	100	0.0	34.7	6	0	1	3	37		S	4	MIS 1600
DUBOIS CEN, WASHINGTON, 3S, 1W															
-----															
		1954		130	5.7	240.1	12	0	0	8					DEV 3100
	BENOIST, MIS	1335	1955	110			12	0	0		30		S	12	
	SPAR MTN, MIS	1530	1954	70			3	0	0		35		L	8	
*DUBOIS C, WASHINGTON, 3S, 1-2W															
-----															
		1939		1520	48.2	2257.2	125	2	6	92					ORO 4217
	CYPRESS, MIS	1230	1947	1100			86	1	6		37		S	10	AL
	BENOIST, MIS	1325	1939	490			41	1	0		30	0.26	S	10	AL
*DUDLEY, EDGAR, 13-14N, 13W															
-----															
		1948		800	67.6	2232.0	118	1	1	102					M STP 2997
	UPPER DUDLEY, PEN	310		800			24	0	0		25		S	20	ML
	LOWER DUDLEY, PEN	410		#			94	1	1		24		S	50	ML
DUDLEYVILLE E, BONO, 4-5N, 2-3W															
-----															
	DEVONIAN	2370	1954	20	0.0	2.8	2	0	0	0	37		L	5	ORO 3397
				ARO 1961											

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells			Character of oil		Pay zone			Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Pro- duced end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)		
DUPON, ST. CLAIR, 1N, 1S, 10W																
TRENTON, ORD		700	1928	880	18,3	2965,0	321	0	0	26	33	0,70	L	50	A	CAM 3111
E8ERLE, EFFINGHAM, 6N, 6E																
CYPRESS, MIS	2475	1947	190	6,5	130,6	13	0	0	4				N	MIS	2882	
SPAR MTN, MIS	2680	1947	100			7	0	0		37		S	10	NL		
MCCLOSKEY, MIS	2820	1947	110			2	0	0				LS	5	NC		
			#			4	0	0		38		L	7	N		
				A80 1967, REV 1973												
EOINBURG, CHRISTIAN, 14N, 3W																
LINGLE, DEV	1810	1949	10	0,0	2,3	1	0	0	0	38		L	2	A	OEV	1853
				A80 1951												
EOINBURG S, CHRISTIAN, 14N, 3W																
MISBARD, DEV	1795	1955	20	0,0	4,4	2	0	0	0	39		LS	13		SIL	1902
				A80 1963												
*EDINBURG W, CHRISTIAN, SANGAMON, 14N, 3-4W																
DEVONIAN	1660	1954	1760	35,1	2968,7	128	0	0	68					A	ORD	2285
SILURIAN	1690	1954	60			7	0	0		41		S	6	A		
			1730			123	0	0		41		L	8	A		
ELBA, GALLATIN, 8S, 8E																
CYPRESS, MIS	2617	1955	210	0,0	25,0	13	0	0	0						MIS	2991
SEYMEL, MIS	2660	1955	10			1	0	0		37		S				
RENAULT, MIS	2770	1955	80			3	0	0		36		S	10			
AUX VASES, MIS	2780	1955	10			1	0	0		36		L	3			
OHARA, MIS	2820	1955	120			5	0	0		38		S	5			
			40			3	0	0		38		L	11			
				A80 1960												
*ELBRIDGE, EDGAR, 12-13N, 11W																
PENNSYLVANIAN	760	1950	440	4,5	1513,0	40	0	0	19					D	TRN	3300
FREDONIA, MIS	950	1949	10			2	0	0		30		S	3	D		
DEVONIAN	1950	1949	430			37	0	0		35		L	3	D		
			20			2	0	0		37		L	20	D		
*ELOORADO C +, SALINE, 8S, 6-7E																
DEGONIA, MIS	1700	1941	3560	81,3	11828,0	297	0	2	95					A	MIS	3606
PALESTINE, MIS																



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
ELKTON, WASHINGTON, 2S, 4W																
BAILEY, OEV	2340	1955	40	0.0	2.6	2	0	0	0	40	L	30	OEV	2485		
ABO 1960																
ELKTON N, WASHINGTON, 2S, 4W																
MARDIN, OEV	2320	1971	160	3.9	67.4	9	0	0	9		S	7	ORO	3275		
ELKVILLE, JACKSON, 7S, 1W																
BENOIST, MIS	2000	1941	10	0.0	4.0	1	0	0	1	36	0.22	S	10	SIL	3914	
*ELLERY E, EDWARDS, 2S, 10E																
AUX VASES, MIS	3180	1953	370	3.4	977.9	30	0	0	3			M	MIS	3823		
OMARA, MIS	3255	1952	240			18	0	0		36	S	35	ML			
SPAR MTN, MIS	3255		190			11	0	0		37	L	6	MC			
ABO 1952, REV 1953, ABO 1959, REV AND ABO 1960																
ELLERY N, EDWARDS, WAYNE, 2S, 9-10E																
BETHEL, MIS	3100	1942	120	6.2	68.6	10	1	0	4			M	OEV	5425		
AUX VASES, MIS	3230	1954	20			2	0	0			S	35	ML			
OMARA, MIS	3300	1954	20			2	1	0			S	12	ML			
SPAR MTN, MIS	3345	1972	90			2	0	0			L	4				
MCCLOSKEY, MIS	3420		#			4	0	0			S	5	ML			
ST LOUIS, MIS	3438	1942	#			2	0	0	37	0.19	L	7	MC			
ABO 1943, REV AND ABO 1951, REV 1954																
ELLERY S, EDWARDS, 2-3S, 10E																
AUX VASES, MIS	3200	1943	90	0.0	173.0	9	0	0	0			M	MIS	3434		
MCCLOSKEY, MIS	3300	1947	30		35.0	5	0	0		36	S	15	ML			
ABO 1952, REV 1953, ABO 1959, REV AND ABO 1960																
ELLIOTTSTOWN, EFFINGHAM, 7N, 7E																
SPAR MTN, MIS	2730	1947	10	0.0	13.7	1	0	0	0	39	S	8	ML	MIS	2834	
ABO 1951																
ELLIOTTSTOWN E, EFFINGHAM, 7N, 7E																
CYPRESS, MIS	2485	1954	90	2.6	124.8	7	0	0	1			M	MIS	3292		
SPAR MTN, MIS	2750	1954	10			1	0	0	35	S	5	ML				
MCCLOSKEY, MIS	2771	1962	80			3	0	0		37	L	10				
ABO 1956, REV 1962																
*ELLIOTTSTOWN N, EFFINGHAM, 7N, 7E																
CYPRESS, MIS	2430	1953	310	2.6	268.6	19	0	0	6			M	MIS	3350		
AUX VASES, MIS	2710	1953	20			2	0	0		36	S	4	ML			
SPAR MTN, MIS	2666	1966	10			1	0	0		37	S	2				
MCCLOSKEY, MIS	2738	1964	270			2	0	0		37	L	3				
ABO 1958, REV 1964																
*ENERGY, WILLIAMSON, 9S, 2E																
AUX VASES, MIS	2354	1968	110	9.4	173.2	9	0	0	9		S	16	MIS	2694		
*ENFIELD, WHITE, 5S, 8E																
AUX VASES, MIS	3250	1950	510	56.9	1141.3	32	2	0	13			A	MIS	4620		
OMARA, MIS	3310	1950	320			21	0	0		39	S	10	AL			
MCCLOSKEY, MIS	3385	1950	170			4	0	0		37	L	4	AC			
ULLIN, MIS	4320	1950	#			3	0	0			L	8	AC			
ABO 1951, REV 1952																
ENFIELD N, WHITE, 5S, 8E																
AUX VASES, MIS	3320	1976	200	103.3	135.9	15	10	0	15			M	MIS	4500		
OMARA, MIS	3400	1976	170			11	7	0			S	12				
ULLIN, MIS	4385	1977	20			3	2	0			L	6				
ABO 1963																
ENFIELD S, WHITE, 6S, 8E																
AUX VASES, MIS	3174	1961	30	0.0	0.0	2	0	0	0			M	MIS	3314		
MCCLOSKEY, MIS	3277	1961	10			1	0	0		39	S	2				
ABO 1963																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
EVERA, EFFINGHAM, 5N, 7E																
			1948	80	2.4	126.4	6	0	0	2					A	ORO 5370
	SPAR MTN, MIS	2610		70			3	0	0		39		L	7	AL	
	MCCLOSKEY, MIS	2660	1948	#			2	0	0				L	4	AC	
	SALEM, MIS	3126	1975	10			1	0	0				L	4		
ABO 1949, REV 1953																
EVERS S, EFFINGHAM, 7N, 7E																
	SPAR MTN, MIS	2650	1948	10	0.0	2.4	1	0	0	0	38		LS	A	AC	MIS 2793
ABO 1951																
EWING, FRANKLIN, 5S, 3E																
			1944	200	5.6	526.5	10	0	0	2					A	MIS 3951
	AUX VASES, MIS	2635	1947	40			3	0	0		38		S	8	AL	
	MCCLOSKEY, MIS	2970	1944	160			7	0	0		36		L	7	A	
ABO 1971, REV 1976																
EWING E, FRANKLIN, 5S, 3E																
			1956	80	59.6	64.7	7	4	0	6						ORO 9511
	OMARA, MIS	3010	1956	10	0.0	0.0	1	0	0		38		L	10		
	ST LOUIS, MIS	3265	1976	10			1	0	0				L	8		
	ULLIN, MIS	3880	1976	70			6	4	0				L	6		
REV 1976																
EXCHANGE, MARION, 1N, 3E																
			1943	40	0.1	69.3	3	0	0	1					M	SIL 4908
	OMARA, MIS	2695		30			1	0	0		37		L	10	MC	
	MCCLOSKEY, MIS	2730	1943	#			2	0	0		37		L	8	MC	
	SALEM, MIS	3171	1975	10			1	0	0				L	15		
ABO 1967, REV 1975																
*EXCHANGE E, MARION, 1N, 4E																
			1955	230	4.1	537.8	16	0	0	2						MIS 3530
	OMARA, MIS	2775	1955	220			1	0	0				L	14		
	SPAR MTN, MIS	2780		#			7	0	0		37		S	11		
	MCCLOSKEY, MIS	2840	1955	#			6	0	0				L	4		
	ST. LOUIS, MIS	2940	1955	10			1	0	0		38		L	8		
*EXCHANGE N C, MARION, 1N, 3-4E																
			1951	230	13.8	794.3	24	0	0	15					MC	MIS 3390
	SPAR MTN, MIS	2682	1967	200			1	0	0				L	3		
	MCCLOSKEY, MIS	2763	1951	#			21	0	0		37		L	6	MC	
	ST LOUIS, MIS	2946	1972	20			1	0	0				L	6		
	SALEM	3080	1967	30			2	0	0		37		L	11	MC	
ABO 1952, REV 1955, ABO 1959, REV 1965																
*EXCHANGE W, MARION, 1N, 3E																
			1957	310	10.9	249.5	25	0	0	7						MIS 3008
	OMARA, MIS	2540	1966	230			1	0	0				L	7		
	SPAR MTN, MIS	2570	1966	#			10	0	0				S	6		
	MCCLOSKEY, MIS	2650	1957	#			11	0	0		37		L	6		
	ST LOUIS, MIS	2720	1967	130			8	0	0		38		L	11		
*FAIRMAN, MARION, CLINTON, 3N, 1E, 1W																
			1939	610	13.0	2099.5	60	0	0	17					A	ORO 4100
	BENOIST, MIS	1435	1939	480			44	0	0		38	0.27	S	10	A	
	TRENTON, ORO	3950	1957	260			17	0	0		40		L	20	A	
FANCHER, SMELBY, 10N, 4E																
	BENOIST, MIS	1749	1962	10	0.0	0.0	1	0	0	0	34		S	3		MIS 1889
ABO 1962																
FERRER LAKE, GALLATIN, 9S, 10E																
	AUX VASES, MIS	2672	1963	10	0.0	4.7	1	0	0	0	36		L	8		MIS 2862
ABO 1966																
FERRIN, CLINTON, 2N, 1W																
			1976	10	0.0	0.0	1	0	0	1						ORO 3956
	DEVONIAN	2840	1976	10			1	0	0				L	7		
	TRENTON, ORO	3930	1976	10			1	0	0				L	18		
FICKLIN, DOUGLAS, 16N, 8E																
	SPAR MTN, MIS	1470	1969	70	1.8	27.7	5	0	0	5			S	A		CAM 5301

TABLE 8. Illinois oil fields statistics, 1977--continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test		
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)		
FITZGERRELL, JEFFERSON, 4S, 1E																	
			1944	10	0.0	16.0	1	0	0	0					MIS	3012	
	BENOIST, MIS	2760	1944	10			1	0	0		37	S	5				
	AUX VASES, MIS	2800		10			1	0	0		37	S					
				ABO 1952													
*FLORA S, CLAY, 2N, 6E																	
	MCCLOSKY, MIS	2985	1946	60	0.0	168.0	4	0	0	0	39	L		AC	DEV	4770	
				ABO 1961													
FLORA SE, CLAY, 2N, 6E																	
	MCCLOSKY, MIS	3073	1972	100	9.3	34.3	8	0	0	8		L	5		MIS	3700	
FORSYTH, MACON, 17N, 2E																	
	SILURIAN	2118	1963	160	4.0	35.8	11	1	0	6	38	L	14		SIL	2220	
FRANCIS MILLS, SALINE, 7S, 7E																	
	CYPRESS, MIS	2675	1952	10	0.2	97.2	1	0	0	1	36	S	5		MIS	3238	
FRANCIS MILLS S, SALINE, 7S 7E																	
			1955	20	0.0	5.6	2	0	0	0					MIS	3180	
	OHARA, MIS	3010	1955	20		5.6	2	0	0			L	11				
	SPAR MTN, MIS	3042	1962	#			1	0	0		37	L	6				
				ABO 1957, REV AND ABO 1962													
FREEBURG +, ST. CLAIR, 1-2S, 7W (NOW FREEBURG GAS STORAGE PROJECT)																	
	CYPRESS, MIS	380	1955	20	0.0	X	2	0	0	0	30	S	30		ORO	2008	
FREEMANSPUR, WILLIAMSON, 8S, 2E																	
	AUX VASES, MIS	2500	1968	60	0.7	3.5	3	0	0	1		S	13		MIS	2779	
				ABO 1971, REV 1975													
FRIENOSVILLE CEN, WABASH, 1N, 13W																	
			1946	170	4.5	138.5	12	0	1	5					MIS	2788	
	BETHEL, MIS	2330	1946	50			5	0	0		35	S	15	MC			
	OHARA, MIS	2597	1972	120			4	0	1			L	8				
	SPAR MTN, MIS	2629	1972	#			3	0	0			S	4				
				ABO 1956, REV 1972													
*FRIENOSVILLE N, WABASH, 1N, 12-13W																	
			1946	220	1.6	273.9	20	0	0	2					MC	MIS	2676
	BIEHL, PEN	1620	1946	220			19	0	0		34	S	12	MC			
	BETHEL, MIS	2308	1959	10			1	0	0		35	S	11	M			
FROGTOWN, CLINTON, 2N, 3-4W																	
	CARLYLE(CYP), MIS	950	1918	90	0.0	X	14	0	0	0	32	S		ML	TRN	3290	
				ABO 1933, REV 1949, ABO 1956													
*FROGTOWN N, CLINTON, 2-3N, 3-4W																	
			1951	440	10.8	2109.9	37	2	0	23					O	SIL	2456
	ST. LOUIS, MIS	1200	1951	60			5	0	0		35	L	10	D			
	DEV-SIL	2250	1951	410			32	2	0		35	L	8	R			
*GAROS POINT C, WABASH, 1N, 14W																	
			1951	680	20.3	1026.3	39	0	0	25						MIS	3900
	OHARA, MIS	2870	1951	670			37	0	0		40	L	6	MC			
	MCCLOSKY, MIS	2905	1976	#			1	0	0			OL	4				
	ULLIN, MIS	3698	1975	10			1	0	0			L	8				
GAYS, MOULTRIE, 12N, 6E																	
			1946	90	2.0	103.1	6	0	0	1					M	DEV	3305
	AUX VASES, MIS	1970		80			5	0	0		36	S	5	ML			
	CARPER, MIS	2963	1963	10			1	0	0		37	S	16				
	DEVONIAN	3205	1955	10			1	0	0		38	L	3	MC			
				ABO 1950, REV 1955													
*GERMANTOWN E, CLINTON, 1-2N, 4W																	
	SILURIAN	2350	1956	380	9.7	1962.2	27	0	0	24	40	L	30	R	TRN	3310	



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- duc- ing end of year	Gr. fur API (%)	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure		Zone	Depth (ft)
*GILA, JASPER, 7-8N, 9E																
MCCLOSKEY, MIS	2850	1957	490	0.9	1047.4	34	0	0	4	39			OL	3	MC	MIS 2971
GILLESPIE-WYEN, MACOUPIN, 8N, 6W																
UNNAMEO, PEN	650	1915	70	0.8	X	23	0	0	2	28			S	X	T	ORO 2560
GLENARM, BANGAMON, 14N, 5W																
SILURIAN	1680	1955	130	0.4	58.8	9	0	0	1	40			L	9		SIL 1821
				ABO 1957, REV 1959, ABO 1960, REV 1961												
*GOLOENGATE C, WAYNE, WHITE, EDWARDS, 2-4S, 9-10E																
		1939	7210	168.7	17690.4	516	9	4	186						A	DEV 5522
CYPRESS, MIS	2942	1960	90			4	0	0	36				S	8	A	
BETHEL, MIS	3110	1951	350			22	0	0	37				S	11	HL	
AUX VASES, MIS	3180	1944	3620			194	6	1	40	0.14			S	15	AL	
OMARA, MIS	3250	1943	4440			51	1	0	39				OL	6	AC	
SPAR MTN, MIS	3275		#			77	4	0	38				LS	7	AC	
MCCLOSKEY, MIS	3310	1939	#			161	5	1	36	0.19			OL	7	AC	
ST. LOUIS, MIS	3430	1952	30			4	0	0	40				L	10	HL	
SALEM, MIS	4130	1975	80			5	1	2					L	30		
ULLIN, MIS	4125	1961	80			6	1	2	39				L	9	A	
OUTCH CREEK, DEV	5346	1961	350			16	0	0	39				S	10		
GOLOENGATE E, WAYNE, 3S, 9E																
		1951	20	1.4	19.7	2	0	0	2							MIS 3420
OMARA, MIS	3290	1951	10			1	0	0	37				L	3		
SPAR MTN, MIS	3340	1976	10			1	0	0					S	4		
				ABO 1957, REV 1968												
*GOLOENGATE N C, WAYNE, 1-2S, 8-9E																
		1945	740	31.5	622.1	53	3	0	37						M	MIS 4383
BETHEL, MIS	3095	1952	10			2	0	0	38				S	3	ML	
AUX VASES, MIS	3235	1948	380			31	2	0	39				S	25	ML	
OMARA, MIS	3300	1945	510			8	1	0	37				L	4	MC	
SPAR MTN, MIS	3325	1945	#			18	3	0	37				L	5	MC	
MCCLOSKEY, MIS	3350		#			21	0	0	39				L	6	MC	
GRANDVIEW +, EOGAR, 12-13N, 13W																
PENNSYLVANIAN	560	1945	70	0.6	6.0	7	0	0	5	30			S	10	M	ORO 2694
GRAYSON, SALINE, 8S, 7E																
		1957	30	0.0	22.9	3	0	0	0							MIS 3045
CYPRESS, MIS	2515	1957	10			1	0	0	37				S	6		
AUX VASES, MIS	2913	1961	10			1	0	0	38				L	4		
MCCLOSKEY, MIS	2920	1957	20			1	0	0	37				L	6		
				ABO 1972												
GREENVILLE GAS +, BONO, 5N, 3W																
LINGLE, DEV	2240	1957	10	0.0	0.0	1	0	0	0	38			L	5	A	TRN 3184
				ABO 1958												
MAOLEY, RICHLAND, 4N, 14W																
SPAR MTN, MIS	2970	1976	100	2.9	7.4	6	1	1	5				S	10		MIS 3106
*HALF MOON, WAYNE, 1S, 9E																
		1947	1260	16.8	3257.5	68	2	1	28						M	DEV 5369
AUX VASES, MIS	3190	1951	20			1	0	4	38				S	18	ML	
OMARA, MIS	3280		1240			39	0	1	40				L	11	MC	
SPAR MTN, MIS	3280	1947	#			11	0	1					L	4	MC	
MCCLOSKEY, MIS	3300	1947	#			22	1	0	37				L	10	MC	
SALEM, MIS	3985	1977	10			1	1	0					L	6		
*MARCO +, SALINE, 8S, 5E																
		1954	1140	28.1	1829.2	94	0	4	39							MIS 3424
MARIONSBURG, MIS	2330	1956	30			1	0	0	36				S	6		
CYPRESS, MIS	2618	1959	50			4	0	0	38				S	8		
SAMPLE, MIS	2675	1954	30			4	0	0	39				S	8		
AUX VASES, MIS	2860	1955	990			75	0	4	41				S	15		
OMARA, MIS	2965	1956	220			6	0	0					L	10		
SPAR MTN, MIS	2970	1956	#			8	0	1	39				LS	10		

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*MARCO E +, SALINE, 8S, 5E																
			1955	330	9.5	344.1	30	2	1	8					MIS	3421
	CYPRESS, MIS	2575	1955	120			12	2	0		38		S	20		
	AUX VASES, MIS	2865	1956	220			13	0	0		38		S	8		
	OMARA, MIS	2880	1955	40			4	0	1		39		L	14		
*HARRISBURG +, SALINE, 8S, 6E																
			1952	100	0.0	252.3	10	0	0	0					MIS	2930
	WALTERSBURG, MIS	2020	1955	90			9	0	0		38		S	14		
	TAR SPRINGS, MIS	2115	1952	10			1	0	0		37		S	6		
				A80	1971											
HARRISBURG S, SALINE, 9S, 6E																
	CYPRESS, MIS	2300	1955	10	0.0	0.0	1	0	0	0	37		S		MIS	2352
				A80	1956											
HARRISBURG W, SALINE, 9S, 6E																
	TAR SPRINGS, MIS	1944	1974	30	1.0	7.3	3	0	2	1			S	18	MIS	2903
HARRISTOWN, MACON, 16N, 1E																
	SILURIAN	2050	1954	210	2.7	186.6	13	0	0	4	39		L	3	MU	SIL 2117
HARRISTOWN S, MACON, 16N, 1E																
	SILURIAN	2140	1975	40	7.1	14.0	4	1	1	3			L	20	SIL	2201
HAYES, DOUGLAS, CHAMPAIGN, 16N, 8E																
	TRENTON	893	1963	480	0.0	154.7	43	0	0	5	31		L	90	CAM	3430
HELENA, LAWRENCE, 2N, 13W																
	ST. LOUIS, MIS	2978	1969	10	0.0	0.0	1	0	0	0			L	5	MIS	3600
				A80	1973											
*MERALO C +, WHITE, GALLATIN, 6-8S, 9-10E																
			1940	6350	186.2	16891.4	556	5	3	212					OEV	5285
	PENNSYLVANIAN	1060		390			1	0	0		29		S	10	AL	
	PENNSYLVANIAN	1500	1940	#			23	0	0		36		S	15	AL	
	PENNSYLVANIAN	1750		#			5	0	0		29		S	18	AL	
	DEGONIA, MIS	1920	1947	80			3	0	0		36		S	12	AL	
	CLORE, MIS	1965		60			2	0	0		36		S	10	AL	
	PALESTINE, MIS	1940		10			2	0	0		34		S	20	AL	
	WALTERSBURG, MIS	2240	1947	520			45	0	0		33		S	10	A	
	TAR SPRINGS, MIS	2260	1944	730			59	2	1		38	0.24	S	13	A	
	CYPRESS, MIS	2660	1947	1900			160	2	1		35	0.22	S	14	A	
	BETHEL, MIS	2790		190			20	0	0		37		S	11	AL	
	AUX VASES, MIS	2920	1943	3050			229	0	0		38		S	6	AL	
	OMARA, MIS	2965		530			8	0	0		37		L	8	AC	
	SPAR MTN, MIS	3005		#			7	0	0				L	4	AC	
	MCCLOSKEY, MIS	3010	1945	#			25	0	0		35		L	10	AC	
	SALEM, MIS	3870	1976	10			1	0	1				L	5		
	ULLIN, MIS	3960	1977	10			1	1	0				L	12		
HERRIN, WILLIAMSON, 8S, 2E																
	CYPRESS, MIS	2221	1965	10	0.0	2.0	1	0	0	0	38		S	9	MIS	2682
				A80	1972											
*HICKORY MILL, MARION, 1N, 4E																
			1964	60	0.0	22.9	4	0	0	0					MIS	3010
	CYPRESS, MIS	2478	1964	10			1	0	0		36		S	10		
	BENOIST, MIS	2645	1964	20			2	0	0		37		S	7		
	SPAR MTN, MIS	2833	1964	10			1	0	0		37		S	6		
				A80	1972											
MIOALGO, JASPER, 8N, 10E																
	MCCLOSKEY, MIS	2575	1940	50	0.7	25.3	5	0	0	1	37	0.20	L	4	MC	OEV 4246
				A80	1952, REV 1965											
MIOALGO E, JASPER, 8N, 10E																
	MCCLOSKEY, MIS	2467	1966	10	0.7	12.9	1	0	0	1	37		O	6	MIS	2747
MIOALGO N, CUMBERLAND, 9N, 9E																
			1946	220	1.5	84.4	16	0	0	10					MIS	2807
	SPAR MTN, MIS	2655	1946	220			11	0	0		37		S	12		
(CONTINUED ON NEXT PAGE)																

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test		
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)		
(CONTINUED FROM PREVIOUS PAGE)																	
MIOALGO N, CUMBERLAND, 9N, 9E ----- MCCLOSKY, MIS		2676	1959	#				8	0	0		37		OL	9		
MIOALGO S, JASPER, 8N, 10E ----- MCCLOSKY, MIS		2628	1964	50 ABO 1973	0.0	2.6	4	0	0	0	37		O	4	MIS	3040	
HIGMLAND, MADISON, 4N, 5W ----- MAROIN, OEV		1941	1960	10 ABO 1962	0.0	0.0	1	0	0	0	37		S	7 U	OEV	1983	
HILL, EFFINGHAM, 6N, 6E ----- SPAR MTN, MIS MCCLOSKY, MIS			1943 2547 1977 2565 1943	70 70 #	1.2	45.1	5 1 4	1 1 0	0 0 0	1			S L	4 5 N	MIS	2963	
ABO 1950, REV 1970, ABO 1972, REV 1977																	
*MILL E, EFFINGHAM, 6N, 6E ----- CYPRESS, MIS AUX VASES, MIS SPAR MTN, MIS MCCLOSKY, MIS ST. LOUIS, MIS			1954 2460 1955 2650 1957 2660 1954 2700 1954 2929 1966	490 290 10 250 # 10	2.9	1296.2	38 26 1 2 9 1	0 0 0 0 0 0	1 0 0 0 1 0	3 37 37 40			S S L L O	8 10 5 7 14	MIS	3251	
MILLSBORO, MONTGOMERY, 9N, 3W ----- LINGLE, OEV		2012	1962	30 ABO 1967	0.0	0.2	3	0	0	0	36		S	4	OEV	2153	
MOFFMAN, CLINTON, 1N, 2W ----- CYPRESS, MIS BENOIST, MIS			1939 1190 1320 1939	360 190 240	9.3	824.9	53 16 38	0 0 0	0 0 0	30	36 33	0.21	S S	11 7 A	OEV	2914	
HOLLIDAY, FAYETTE, 9N, 3E ----- DEVONIAN		3150	1977	10	0.0	0.0	1	1	0	1			S	6	OEV	3237	
HOODOVILLE E, MAMILTON, 5S, 7E ----- MCCLOSKY, MIS		3365	1944	10 ABO 1944	0.0	0.6	1	0	0	0	37		L	3 N	MIS	3411	
*MORO, CLAY, 5N, 6E ----- AUX VASES, MIS STE. GEN, MIS			1950 2702 1959 2800 1950	270 70 270	1.8	588.3	19 6 13	0 0 0	0 0 0	2	38 37		S L	10 5 M	MIS	2954	
MORO N, EFFINGHAM, 6N, 6E ----- CYPRESS, MIS AUX VASES, MIS			1958 2430 1958 2633 1959	60 40 30	4.7	179.0	6 3 3	0 0 0	0 0 0	4	33 38		S S		10	MIS	2860
*MORO S C, CLAY, 5N, 6E ----- AUX VASES, MIS STE. GEN, MIS			1942 2735 1955 2790 1942	380 20 380	1.1	1798.7	28 2 26	0 0 0	0 0 0	9	37 36		S L	8 7 NC	MIS	3104	
ABO 1945, REV 1951																	
HORNBY S, MACOUPIN, 8N, 6W ----- PENNSYLVANIAN		640	1956	50 ABO 1957, REV 1959, ABO 1960	0.0	0.0	4	0	0	0	28		S	1	PEN	715	
HOYLETON W, WASHINGTON, 1S, 2W ----- CLEAR CREEK, OEV		2895	1955	10 ABO 1964	0.0	3.7	1	0	0	0	39		L	12	SIL	2965	
HUEY, CLINTON, 2N, 2W ----- BENOIST, MIS		1260	1945	80 ABO 1974	0.0	5.4	7	0	0	0	34		S	6 AL	OEV	2770	
HUEY S, CLINTON, 1-2N, 2-3W ----- (CONTINUED ON NEXT PAGE)			1953	310	5.5	271.6	23	0	0	15					SIL	2675	

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
MUEY S, CLINTON, 1-2N, 2-3W	CYPRESS, MIS	1080	1953	190			17	0	0		34		S	5		
	SILURIAN	2585	1956	110			6	0	0		40		L	10		
MUNT CITY, JASPER, 7N, 10E	SPAR MTN, MIS	2540	1945	10	0.0	0.8	1	0	0	0	37		S	10	ML	MIS 3020
				ABO 1950												
MUNT CITY E, JASPER, 7N, 14W	FREDONIA, MIS		1952	90	0.0	20.9	8	0	0	1	40		L	6		SIL 3660
	ST. LOUIS, MIS	2000	1952	90			8	0	0							
		2187	1966	10			1	0	0		39		O	20		
				ABO 1954, REV 1965												
MUNT CITY S, JASPER, 7N, 14W	MCCLOSKEY, MIS	2341	1966	30	0.4	14.3	3	0	0	2	38		L	4		MIS 2766
MUTTON, COLES, 11N, 10E	PENNSYLVANIAN	530	1939	20	0.0	15.0	2	0	0	0	30		S	15		MIS 969
				ABO 1946												
ILLIOPOLIS, SANGAMON, 16N, 2W	SILURIAN	1765	1977	30	1.7	1.7	1	1	0	1			L	3		SIL 1803
*INA, JEFFERSON, 4S, 2-3E	RENAULT, MIS		1938	430	0.0	747.7	28	0	1	0					A	MIS 3521
	AUX VASES, MIS	2725	1954	150			7	0	0		36		S	14	AL	
	SPAR MTN, MIS	2682	1958	30			3	0	0		36		S	26	A	
	MCCLOSKEY, MIS	2775	1957	110			3	0	0				S	10	A	
	ST. LOUIS, MIS	2775		#			4	0	0		35		L	10	A	
	SALEM, MIS	3000	1938	90			8	0	0		37	0.20	L	4	AC	
		3210	1957	40			4	0	1		37		L	9	A	
				ABO 1946, REV 1954, ABO 1977												
INA N, JEFFERSON, 4S, 3E	MCCLOSKEY, MIS	2940	1949	10	0.0	0.7	1	0	0	0	35		L	4		MIS 3689
				ABO 1950												
INCLOSE +, EDGAR, CLARK, 12N, 13-14W	ISABEL, PEN	345	1941	110	0.2	X	15	0	0	4	30		S		AL	MIS 1600
*INGRAHAM, CLAY, 4N, 8E	TAR SPRINGS, MIS		1942	680	6.8	995.5	47	0	0	5					M	MIS 3702
	AUX VASES, MIS	2332	1969	10			1	0	0				S	8		
	SPAR MTN, MIS	2915		80			6	0	0		38		S	15	ML	
	MCCLOSKEY, MIS	3000		620			34	0	0		37	0.21	L	7	MC	
		3075	1942	#			8	0	0		37	0.21	L	A	MC	
				ABO 1942, REV 1943, ABO 1944, REV 1950, ABO 1968, REV 1969												
*INMAN E C, GALLATIN, 7-8S, 10E	PENNSYLVANIAN		1940	4560	99.3	22023.5	433	6	1	139					A	DEV 5100
	PENNSYLVANIAN	780		80			4	0	0		38		S	10	AF	
	OEGONIA, MIS	1450		#			2	0	0				S	4	AF	
	CLORE, MIS	1690		90			4	0	0		37		S	10	AF	
	PALESTINE, MIS	1725	1942	50			4	0	0		36		S	8	AF	
	WALTERSBURG, MIS	1840	1942	90			4	0	0		35		S	13	AF	
	TAR SPRINGS, MIS	1980	1942	1220			83	0	0		37		S	18	AF	
	MARDINSBURG, MIS	2080	1940	1840			157	1	0		37	0.24	S	13	AF	
	CYPRESS, MIS	2135	1943	280			17	0	0		34		S	10	AF	
	RENAULT, MIS	2390		2410			166	3	1		37	0.23	S	14	AF	
	AUX VASES, MIS	2675	1967	10			1	0	0		36		S	5	AF	
	OHARA, MIS	2715		570			38	2	0		37		S	8	AF	
	SPAR MTN, MIS	2795	1947	150			2	0	0				L	5	AF	
	MCCLOSKEY, MIS	2790		#			1	0	0				L	7	AF	
	ST. LOUIS, MIS	2800		#			7	0	0		39		L	8	AF	
		2960	1957	40			6	0	0		38		L	10	AF	
*INMAN W C, GALLATIN, 7-8S, 9-10E	PENNSYLVANIAN		1940	3880	118.3	8992.7	349	1	7	181					T	MIS 3357
	PENNSYLVANIAN	925		190			5	0	0				S	8	NL	
	BIEM, PEN	1630		#			4	0	0				S	5	NL	
	PALESTINE, MIS	1750		#			7	0	0		35		S	12	NL	
	WALTERSBURG, MIS	1765	1947	40			4	0	0		35		S	13	NL	
	TAR SPRINGS, MIS	2080		130			8	0	0		37		S	10	TL	
	MARDINSBURG, MIS	2140	1943	1340			93	0	6		36		S	8	TL	
		2300	1947	300			22	1	0		32		S	10	TL	

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- duc- ing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
*INMAN W C, GALLATIN, 7-SS, 9-10E																
	CYPRESS, MIS	2475	1942	2210			170	1	3		37		8	10	T	
	SAMPLE, MIS	2610		50			1	0	0		36		8	30	T	
	RENAULT, MIS	2775	1949	30			3	0	0		37		L	7	T	
	AUX VASES, MIS	2790	1949	910			73	0	0		37		S	15	TL	
	OHARA, MIS	2815		250			6	0	0				L	12	TC	
	SPAR MTN, MIS	2815	1940	#			4	0	0		38		L	8	TC	
	MCCLOSKY, MIS	2940	1941	#			15	0	0		36	0.19	L	6	TC	
	ST LOUIS, MIS	3180	1967	10			1	0	0		39		L	6		
IOLA GEN, CLAY, 5N, 5E																
			1954	180	5.4	62.5	17	0	0	12						MIS 2800
	CYPRESS, MIS	2277	1972	110			10	0	0				S	15		
	BENOIST, MIS	2420	1954	60			6	0	0		36		S	5		
ABD 1957, REV 1965																
*IOLA C, CLAY, EFFINGHAM, 5-6N, 5-6E																
			1939	3450	187.8	15943.9	307	0	4	216				A	OEV	4227
	TAR SPRINGS, MIS	1890		20			1	0	0		35		S	9	AL	
	CYPRESS, MIS	2125	1943	750			52	0	1		35		S	15	A	
	BETHEL, MIS	2255	1942	60			5	0	0		36		S	10	AL	
	BENOIST, MIS	2290		1260			87	0	0		36	0.14	S	12	A	
	RENAULT, MIS	2320		10			1	0	0				L	X	AC	
	AUX VASES, MIS	2325	1939	2420			195	0	2		36	0.25	S	10	A	
	OHARA, MIS	2410	1963	1470			1	0	0				L	6	A	
	SPAR MTN, MIS	2430		#			67	0	1		37		LS	7	A	
	MCCLOSKY, MIS	2425	1940	#			53	0	2		38		OL	10	A	
IOLA S, CLAY, 4N, 5E																
			1947	350	12.5	422.7	27	1	1	11				A	SIL	5075
	BENOIST, MIS	2490	1948	170			11	0	0		36		S	10	AL	
	SPAR MTN, MIS	2590		240			8	1	1				L	6	AC	
	MCCLOSKY, MIS	2650	1947	#			8	0	0		37		L	3	AC	
	CARPER, MIS	3900	1967	10			1	0	0		38		S	7		
IOLA W, CLAY, 5N, 5E																
	MCCLOSKY, MIS	2495	1945	10	0.0	0.5	1	0	0	0	37		L	11	MC	MIS 2613
ABD 1945																
*IRVINGTON, WASHINGTON, 1S, 1W																
			1940	1410	114.0	9334.5	139	0	0	90				A	ORD	4440
	BEECH CREEK, MIS	1525	1951	10			1	0	0		38		L	3	AC	
	CYPRESS, MIS	1380	1943	410			35	0	0		36		S	12	A	
	BENOIST, MIS	1535	1940	1040			85	0	0		37	0.16	S	12	A	
	CLEAR CREEK, OEV	3090		280			17	0	0		39	0.27	L	12	A	
	TRENTON, ORD	4275	1956	110			6	0	0		39		L	90	A	
*IRVINGTON E, JEFFERSON, 1S, 1E																
			1951	340	27.6	1074.9	27	0	0	25						MIS 2222
	PENNSYLVANIAN	1030	1951	40			5	0	0		32		S	15		
	CYPRESS, MIS	1750	1955	120			7	0	0		37		S	15		
	BENOIST, MIS	1950	1955	200			1A	0	0		37		S			
IRVINGTON N, WASHINGTON, 1N, 1S, 1W																
			1953	310	17.7	1389.3	28	0	0	26				A	ORD	4334
	CYPRESS, MIS	1340		60			5	0	0		37		S	16	AL	
	BENOIST, MIS	1470	1953	250			22	0	0		39		S	6	AL	
IRVINGTON W, WASHINGTON, 1S, 1W																
	CYPRESS, MIS	1460	1963	50	0.4	10.7	3	0	0	2	36		S	20		MIS 1909
*IUKA, MARION, 2N, 4E																
			1947	710	10.7	1077.3	46	0	0	18				M	OEV	4375
	AUX VASES, MIS	2528	1960	40			3	0	0		37		S	11	M	
	OHARA, MIS	2650		530			7	0	0				L	5	MC	
	SPAR MTN, MIS	2660		#			6	0	0				L	15	MC	
	MCCLOSKY, MIS	2750	1947	#			27	0	0		39		L	10	MC	
	ST. LOUIS, MIS	2775	1952	200			8	0	0		37		L	5	MC	
IUKA S, MARION, 2N, 4E																
	MCCLOSKY, MIS	2680	1971	220	21.5	348.5	12	0	0	9			L	5		MIS 2885



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
IUKA W, MARION, 2N, 3-4E																
MCCLOSKEY, MIS	2700	1955		60	3.2	61.7	5	0	0		3	37	L	5	MIS	3309
JACKSONVILLE GAS +, MORGAN, 15N, 9W																
GAS, PEN, MIS	330	1910		90	0.0	2.0	11	0	0		1				ORO	1390
MCCLOSKEY, MIS	272	1972		80			9	0	0		37		LS	5	ML	
SALEM, MIS	294	1972		10			1	0	0				L	29		
				20			2	0	0				L	19		
A80 1937, REV 1967, A80 1969, REV 1972																
*JOHNSON N, CLARK, 9-10N, 14W																
KICKAPOO, PEN	315	1907		2410	X	X	640	6	4		277				AM	ORO 4519
CLAYPOOL, PEN	415			2360			34	0	0				S	X	AM	
CASEY, PEN	465			#			305	2	0				S	X	AM	
UPPER PARTLOW, PEN	535			#			196	0	3		32		S	X	AM	
MCCLOSKEY, MIS	556			#			51	0	0				S	X	AM	
CARPER, MIS	1325			60			X	0	0		35		OL	6	AM	
DEVONIAN	1720	1973		290			11	0	1		37		S	X	AM	
TRENTON, ORO	2900	1977		10			1	0	0				L	45		
				50			4	4	0				L	60		
SEE CLARK COUNTY DIVISION FOR PRODUCTION																
*JOHNSON S, CLARK, 9N, 14W																
CLAYPOOL, PEN	390	1907		2060	X	X	662	1	0		164				AM	DEV 2030
CASEY, PEN	450			2050			39	0	0				S	X	AM	
UPPER PARTLOW, PEN	490			#			60	0	0		30		S	X	AM	
LOWER PARTLOW, PEN	600			#			433	1	0		31		S	48	AM	
AUX VASES, MIS	717	1961		#			182	1	0		29		S	X	AM	
CARPER, MIS	1740	1971		40			1	0	0		35		S	21	A	
DEVONIAN	1920	1975		20			1	0	0				S	22		
				10			1	0	0				L	X		
SEE CLARK COUNTY DIVISION FOR PRODUCTION																
*JOHNSONVILLE C, WAYNE, 1N, 1S, 6-7E																
BETHMEL, MIS	2950	1940		9060	345.3	52883.3	475	9	2		183				A	TRN 6460
AUX VASES, MIS	3020			30			3	0	0		36		S	12	AL	
OMARA, MIS	3120	1943		2920			161	3	0		38	0.14	S	20	AL	
SPAR MTN, MIS	3150			8210			30	0	0		38		OL	10	AC	
MCCLOSKEY, MIS	3170	1940		#			9	0	0		38		OL	A	AC	
ST. LOUIS, MIS	3256	1961		#			443	4	2		38	0.17	OL	15	AC	
SALEM, MIS	3852	1960		110			10	0	0		38		L	14	A	
				90			5	2	0		39		L		AC	
JOHNSONVILLE N, WAYNE, 1N, 6E																
OMARA, MIS	3190	1943		150	0.0	91.8	8	0	0		0				A	MIS 3335
SPAR MTN, MIS	3220			150			1	0	0		38	0.17	OL	3	AC	
MCCLOSKEY, MIS	3250	1943		#			7	0	0				L	8	AC	
				1			1	0	0		38	0.17	OL	3	AC	
ARO 1966, REV 1968, ARO 1969																
*JOHNSONVILLE S, WAYNE, 1S, 6E																
AUX VASES, MIS	3060	1942		1080	299.8	1258.1	83	23	0		49				A	MIS 4041
OMARA, MIS	3160	1942		360			28	1	0		38		S	15	A	
SPAR MTN, MIS	3160	1977		840			3	3	0				L	5		
MCCLOSKEY, MIS	3160			#			5	2	0				L	4	AC	
ST LOUIS, MIS	3200	1942		#			19	6	0		38		L	5	AC	
SALEM, MIS	3290	1977		20			2	2	0				L	6		
	3772	1975		520			33	15	0				L	30		
*JOHNSONVILLE W, WAYNE, 1N, 1S, 5-6E																
BETHMEL, MIS	2925	1942		870	24.0	2277.6	69	0	0		21				M	MIS 3850
AUX VASES, MIS	2900	1952		40			1	0	0		37		S	7	ML	
OMARA, MIS	2930	1943		440			37	0	0		37		S	6	ML	
SPAR MTN, MIS	3015			390			5	0	0				L	6	MC	
MCCLOSKEY, MIS	3100	1942		#			10	0	0				L	4	MC	
				#			18	0	0		40		L	7	MC	
*JOHNSTON CITY E, WILLIAMSON, 8S, 3E																
CYPRESS, MIS	2290	1959		290	98.7	997.2	20	0	1		13					MIS 2997
BETHMEL, MIS	2500	1959		130			9	0	0		37		S	20		
AUX VASES, MIS	2620	1975		10			1	0	0				S	5		
OMARA, MIS	2660	1962		260			12	0	0		36		S	10		
SPAR MTN, MIS	2660	1975		20			1	0	0				L	5		
MCCLOSKEY, MIS	2680	1963		#			2	0	1				L	7		
	2680	1963		#			1	0	0		38		OL	12		

JOHNSTON CITY N E, WILLIAMSON, BS, 3E  
-----  
(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. fur API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
JOHNSTON CITY N E, WILLIAMSON, 8S, 3E	AUX VASES, MIS	2818	1969	50	6.3	218.0	4	0	0	4			S	16	MIS	3014
JUNCTION, GALLATIN, 9S, 9E																
	PENNSYLVANIAN	1150	1947	380	2.1	693.3	32	0	0	8			S	7	M	3600
	WALTERSBURG, MIS	1750	1939	300			4	0	0		35		S	14	ML	
	HARDINBURG, MIS	2120	1949	30			26	0	0		37		S	5	ML	
	CYPRESS, MIS	2275	1954	20			1	0	0		34		S	12	ML	
	MCCLOSKEY, MIS	2730	1955	10			2	0	0		37		S	9	MC	
							1	0	0		37		L			
JUNCTION E, GALLATIN, 8-9S, 9E																
	WALTERSBURG, MIS	2000	1953	150	5.9	122.4	9	0	0	8			S	14		2970
	7AR SPRINGS, MISS	2119	1973	140			8	0	0		37		S	25		
				10			1	0	0							
JUNCTION N, GALLATIN, 8-9S, 9E																
	PENNSYLVANIAN	1565	1947	270	1.4	250.7	24	0	0	10			S	16	M	2983
	WALTERSBURG, MIS	1990	1973	100			10	0	0		36		S	20	ML	
	CYPRESS, MIS	2450	1954	80			5	0	0				S	10	ML	
	AUX VASES, MIS	2725	1946	30			3	0	0		37		S	4	ML	
	SPAR MTN, MIS	2860	1955	40			3	0	0		36		S	6	ML	
				40			3	0	0		37		L		MC	
JUNCTION CITY C, MARION, 2N, 1E																
	OYKSTRA(CUBA), PEN	510	1910	170	0.6	31.9	17	0	0	12			S		NL	3346
	WILSON, PEN	680	1952	170			11	0	0		32		S	8	NL	
				#			6	0	0				S		NL	
KEENSBURG E, WABASH, 2S, 13W																
	OMARA, MIS	2705	1945	40	0.0	9.0	3	0	0	0			L	10	M	2802
	MCCLOSKEY, MIS	2710	1939	40			1	0	0				L	6	MC	
				#			2	0	0		38	0.26	L			
				ABO 1947												
KEENSBURG S, WABASH, 2-3S, 13W																
	PENNSYLVANIAN	1145	1944	330	23.4	1045.5	31	1	0	17			S	15	A	3475
	CYPRESS, MIS	2385	1951	150			16	0	0		33		S	9	AL	
	OMARA, MIS	2715	1944	130			11	0	0		36		S	10	AL	
	SALEM, MIS	3200	1973	30			2	1	0		38		L	8	AC	
				20			2	0	0				L			
KEENVILLE, WAYNE, 1S, 5E																
	AUX VASES, MIS	2960	1945	1280	707.0	3002.7	100	42	0	48			S	20	A	4050
	OMARA, MIS	3050	1946	360			26	1	0		37		S	8	AL	
	SPAR MTN, MIS	3060		440			5	0	0				L	10	AC	
	SALEM, MIS	3620	1977	#			1	0	0		37		L	8	AC	
				730			42	42	0				L			
KEENVILLE E, WAYNE, 1S, 5E																
	SPAR MTN, MIS	3075	1951	100	1.8	97.2	6	0	0	3			L	4		3825
	MCCLOSKEY, MIS	3120	1951	80			1	0	0				L	10		
	ST LOUIS, MIS	3190	1967	#			5	0	0		37		L	10		
	SALEM, MIS	3709	1977	10			2	0	0		39		L	10		
				10			1	1	0				L			
KELL, JEFFERSON, 1S, 3E																
	MCCLOSKEY, MIS	2625	1942	50	0.0	14.0	5	0	0	0	37	0.26	L		A	2921
				ABO 1944, REV 1958, ABO 1962												
KELL N, MARION, 1N, 3E																
	ST LOUIS, MIS	2695	1976	30	0.0	0.2	3	1	0	3			L	4		3118
	SALEM, MISS	2770	1976	20			2	0	0				L	4		
				30			3	1	0				L			
KELL W, MARION, 1N, 2E																
	MCCLOSKEY, MIS	2354	1962	10	0.0	0.8	1	0	0	0	38		OL	6		2475
				ABO 1964												
KELLERVILLE, ADAMS, BROWN, 1-2S, 5W																
(CONTINUED ON NEXT PAGE)																

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977-continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
KELLERVILLE, ADAMS, BROWN, 1-2S, 5W																
(CONTINUED FROM PREVIOUS PAGE)																
SILURIAN 637 1959 630 4.1 220.1 57 0 0 15 37 0 7 AC STP 1075																
*KENNER, CLAY, 3N, 5-6E																
TAR SPRINGS, MIS 2200 1942 1290 24.5 2447.8 109 1 0 25 37 0.22 S 7 A SIL 4970																
BENOIST, MIS 2690 1942 710 57 0 0 37 10 A																
RENAULT, MIS 2761 1958 240 17 0 0 37 9 A																
AUX VASES, MIS 2835 1943 850 49 0 0 38 9 AL																
SPAR MTN, MIS 2875 1947 160 6 1 0 37 5 AC																
MCCLOSKEY, MIS 2930 1945 6 0 0 37 7 AC																
ST. LOUIS, MIS 2978 1964 10 1 0 0 37 4																
CARPER, MIS 4221 1959 10 1 0 0 39 10 A																
DEVONIAN 4424 1959 40 2 0 0 36 L 55 A																
*KENNER N, CLAY, 3N, 6E																
BENOIST, MIS 2755 1947 390 0.0 888.6 36 0 0 1 37 S 8 A ORO 6032																
MCCLOSKEY, MIS 2970 1947 80 5 0 0 37 L 6 AC																
KENNER S, CLAY, 2N, 5E																
BENOIST, MIS 2730 1950 40 0.5 20.6 4 0 0 2 37 S 5 A MIS 3000																
AUX VASES, MIS 2768 1971 10 1 0 0 37 6																
MCCLOSKEY, MIS 2870 1950 30 4 0 0 37 L 10 AC																
ARO 1952, REV 1967																
*KENNER W, CLAY, 3N, 5E																
CYPRESS, MIS 2600 1947 410 3.6 2106.7 35 0 0 8 37 S 26 A DEV 4800																
BENOIST, MIS 2705 1947 350 27 0 0 38 9 A																
RENAULT, MIS 2802 1960 10 1 0 0 37 10 A																
AUX VASES, MIS 2837 1960 110 8 0 0 38 24 A																
MCCLOSKEY, MIS 2870 1947 20 2 0 0 38 L 4 A																
KEYESPORT, CLINTON, 3N, 2W																
BENOIST, MIS 1180 1949 180 0.3 175.0 20 0 0 15 35 S 8 AL MIS 1358																
*KINCAID C, CHRISTIAN, 13-14N, 3W																
CEDAR VALLEY, DEV 1800 1955 2620 104.6 5188.6 148 0 18 209 38 OS 19 MU SIL 1971																
SILURIAN 1874 1959 2620 10 1 0 0 38 O 7 MU																
*KING, JEFFERSON, 3-4S, 3E																
RENAULT, MIS 2718 1942 1430 8.6 3716.4 112 0 0 32 39 S X A DEV 4775																
AUX VASES, MIS 2725 1942 1380 104 0 0 39 0.17 S 15 AL																
OHARA, MIS 2765 1942 320 11 0 0 L 10 AC																
SPAR MTN, MIS 2815 7 0 0 40 0.16 LS 10 AC																
MCCLOSKEY, MIS 2840 1942 4 0 0 L 5 AC																
KINMUNOY, MARION, 4N, 2-3E																
BENOIST, MIS 1915 1950 80 1.2 90.7 7 0 0 3 34 S 3 A DEV 3650																
SALEM, MIS 2430 10 1 0 0 36 L 7 A																
CARPER, MIS 3384 1962 50 4 0 0 37 S 17																
ARO 1960, REV 1962																
KINMUNDY N, MARION, 4N, 3E																
BENOIST, MIS 2050 1953 10 0.0 2.9 2 0 0 0 34 S 6 MIS 2301																
ARO 1954, REV 1951, ARO 1974																
LACLEOE, FAYETTE, 5N, 4E																
BENOIST, MIS 2335 1943 50 0.6 32.1 6 0 0 1 36 0.18 S 15 A MIS 2608																
LAKEWOOD, SHELBY, 10N, 2-3E																
BENOIST, MIS 1690 1941 120 1.4 275.9 12 0 0 3 30 S 7 A SIL 3127																
AUX VASES, MIS 1720 1941 50 5 0 0 32 0.23 S 8 AL																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*LANCASTER, WABASH, LAWRENCE, 1-2N, 13W																
			1940	1970	50.0	5204.2	148	0	3	54			A		OEV	4555
	TAR SPRINGS, MIS	2050	1959	10			0	0	1		31		3	A		
	BETHEL, MIS	2540		980			0	0	0		36		14	AL		
	OMARA, MIS	2670	1944	1000			0	0	0				10	AC		
	SPAR MTN, MIS	2649	1964	#			9	0	0				6			
	MCCLOSKEY, MIS	2690	1940	#			51	0	2		40	0.28	7	AC		
LANCASTER CEN, WABASH, 1N, 13W																
			1946	240	0.0	376.5	16	0	0	0			M		MIS	3607
	OMARA, MIS	2750	1947	240			5	0	0				7	MC		
	SPAR MTN, MIS	2810	1946	#			10	0	0		37		7	MC		
	MCCLOSKEY, MIS	2815	1947	#			3	0	0				8	MC		
A80 1961,REV 1972,A80 1976																
LANCASTER E, WABASH, 2N, 13W																
			1944	70	0.0	76.3	6	0	0	1			M		MIS	2750
	BRIDGEPORT, PEN	1310	1976	60			1	0	0				13			
	BUCHANAN, PEN	1410	1976	#			1	0	0				5			
	BIEHL, PEN	1745	1944	#			4	0	0		31		10	ML		
	SPAR MTN, MIS	2660	1947	10			1	0	0		39		6	MC		
A80 1975,REV 1976																
*LANCASTER S, WABASH, 1N, 13W																
			1946	310	15.4	460.9	22	0	0	17			M		MIS	3489
	BETHEL, MIS	2520	1949	270			18	0	0		36		6	ML		
	OMARA, MIS	2670		70			3	0	0				6	MC		
	MCCLOSKEY, MIS	2720	1946	#			1	0	0		39		12	MC		
LANGWISCH-KUESTER, MARION, 1N, 1E																
			1910	110	0.0	35.0	15	0	0	0			N		DEV	3509
	UNNAMED, PEN	795	1951	10			2	0	0		32		X	N		
	CYPRESS, MIS	1600	1910	100			13	0	0		35		X	N		
*LAWRENCE, LAWRENCE, CRAWFORD, 2-5N, 11-13W																
			1906	36100	X	X	6979	23	50	2675			A		CAM	9261
	TRIVOLI, PEN	290		10960			19	0	0		28		X	A		
	CUBA, PEN	450		#			5	1	0				X	A		
	BRIDGEPORT, PEN	800		#			1364	3	18		36		40	A		
	PENNSYLVANIAN	950		#			23	0	0				15	A		
	BUCHANAN, PEN	1250		#			569	10	2		33		15	A		
	RIOGLEY	1300		#			X	0	0				X			
	TAR SPRINGS, MIS	1410		70			8	0	1		34		10	A		
	MARIONSBURG, MIS	1570		110			12	0	0		33		10	A		
	JACKSON, MIS	1370		1500			324	1	0		33		15	A		
	CYP(KIRKWOOD), M	1400		22200			4516	2	22		40		30	A		
	SAMPLE, MIS	1600		9800			179	0	0		35		8	A		
	BETH(TRACEY), MIS	1650		#			1014	0	4		38		20	A		
	BENOIST, MIS	1695		#			96	0	0		37		7	A		
	AUX VASES, MIS	1775		760			57	0	0		38		8	A		
	OMARA, MIS	1750		12300			15	0	0				8	A		
	SPAR MTN, MIS	1860		#			73	3	1		33		4	A		
	MCCLOSKEY, MIS	1860		#			1149	3	8		40		10	A		
	ST. LOUIS, MIS	1660		290			12	0	0		35		10	A		
	SALEM, MIS	1955		130			7	1	0		36		2	A		
	DEVONIAN	2934	1975	60			14	2	0		39		12			
SEE LAWRENCE COUNTY DIVISION FOR PRODUCTION																
LAWRENCE COUNTY DIVISION, LAWRENCE, CRAWFORD																
			1900	37050	2945.5	376860.9	7068	23	54	2707					CAM	9261
TOTALS FOR LAWRENCE AND ST. FRANCISVILLE POOLS																
*LAWRENCE W, LAWRENCE, 3N, 13W																
			1952	840	18.7	489.2	71	4	0	51					MIS	3059
	PAINT CREEK, MIS	1978	1962	700			9	1	0		35		13			
	BETHEL, MIS	2050	1952	#			42	0	0		33		15			
	AUX VASES, MIS	2110	1953	70			7	1	0		36		8			
	OMARA, MIS	2214	1968	140			1	0	0				16			
	SPAR MTN, MIS	2193	1963	#			5	1	0				2			
	MCCLOSKEY, MIS	2225	1953	#			9	2	0		40		11			
*LEXINGTON, WABASH, 1S, 14W																
			1947	160	4.4	476.6	15	0	1	3			A		MIS	3031
	CYPRESS, MIS	2585	1953	10			1	0	0		32		10	AL		
	BENOIST, MIS	2733	1972	20			2	0	1				4			
	OMARA, MIS	2912	1968	130			1	0	0				3			
	MCCLOSKEY, MIS	2970	1947	#			12	0	0		38		8	AC		

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
LEXINGTON N, WABASH, 18, 14W																
STE. GEN, MIS	2915 1951	20	0.0	6.4	2	0	0	0	38			L	4	MC	MIS	3045
		ABO 1958														
*LILLYVILLE, CUMBERLAND, EFFINGHAM, 8-9N, 6-7E																
SPAR MTN, MIS	1946 2433 1968	190	10.7	616.8	15	0	0	9							OEV	4000
MCCLOSKEY, MIS	2425 1946	200			1	0	0					S	6			
		#			13	0	0	36				L	10	A		
LILLYVILLE N, CUMBERLAND, 9N, 7E																
SPAR MTN, MIS	1974 2405 1974	80	54.3	411.0	5	0	0	5							ORO	6500
MCCLOSKEY, MIS	2440 1974	80			3	0	0					S	7			
SALEM, MIS	2840 1974	#			5	0	0					L	20			
GENEVA, OEV	3825 1974	60			4	0	0					L	5			
		30			3	0	0					O	10			
LIS, JASPER, 7N, 9E																
SPAR MTN, MIS	3022 1964	10	0.0	0.5	1	0	0	0	37			S	5		MIS	3050
		ABO 1967														
LITCHFIELD, MONTGOMERY, 8-9N, 5W																
UNNAMED, PEN	660 1886	150	0.0	24.0	18	0	0	0	23	0.24		S	0		STP	3000
		ABO 1904, REV 1942, ABO														
LITCHFIELD S, MONTGOMERY, 8N, 5W																
PENNSYLVANIAN	610 1967	80	0.0	0.0	7	3	0	5	23			S	3		OEV	1920
*LIVINGSTON, MADISON, 6N, 6W																
PENNSYLVANIAN	535 1948	490	5.3	714.1	66	0	0	25	35			S	15	ML	ORO	2378
*LIVINGSTON S +, MADISON, 5-6N, 6W																
PENNSYLVANIAN	530 1950	630	13.9	552.7	75	1	0	54	35			S	7	ML	SIL	1735
*LOCUST GROVE, WAYNE, 1N, 9E																
AUX VASES, MIS	1951 3215 1951	150	0.6	251.6	13	0	0	1							MIS	4190
OHARA, MIS	3240 1951	110			8	0	0	36				S	10			
MCCLOSKEY, MIS	3280 1951	40			4	0	0					L	4			
		#			1	0	0	37				L	6			
LOCUST GROVE S, WAYNE, 1S, 9E																
OMARA, MIS	1953 3248 1958	170	0.0	112.4	10	0	0	0							MIS	3413
SPAR MTN, MIS	3300 1953	170			2	0	0	39				L	6			
MCCLOSKEY, MIS	3286 1958	#			5	0	0	37				L	10			
		#			4	0	0	39				L	4			
		ABO 1971, REV 1972, ABO 1974														
LOGAN, FRANKLIN, 7S, 3E																
AUX VASES, MIS	1966 2920 1968	30	2.4	82.4	3	0	0	2							MIS	3176
SPAR MTN, MIS	3028 1966	10			1	0	0					S	8			
MCCLOSKEY, MIS	3082 1966	20			1	0	0	34				L	4			
		#			1	0	0					L	8			
LONG BRANCH, SALINE, HAMILTON, 7S, 6E																
PALESTINE, MIS	1950 2070 1950	70	1.0	330.7	12	0	0	3							MIS	3389
CYPRESS, MIS	2745 1951	20			2	0	0					S	8	AL		
AUX VASES, MIS	3095	20			3	0	0	37				S	13	AL		
MCCLOSKEY, MIS	3220 1950	40			6	0	0	37				S	9	AL		
		20			2	0	0	37				L	5	AC		
LONG BRANCH S, SALINE, 8S, 6E																
CYPRESS, MIS	2660 1955	10	0.0	8.9	1	0	0	0				S	8		MIS	3210
		ABO 1971														
*LOUGEN +, FAYETTE, EFFINGHAM, 6-9N, 2-4E																
CYPRESS, MIS	1937 24930	2032,1	365447.5	2406	34	7	1251								PC	8616
BETHEL, MIS	1500 21440			1599	6	6			36	0.25		S	30	A		
BENOIST, MIS	1540 9120			378	9	2			38	0.24		S	15	A		
AUX VASES, MIS	1550 1937	7100		731	6	1			38	0.20		S	10	A		
MCCLOSKEY, MIS	1600 580			12	2	0			37	0.17		S	6	AL		
CARPER, MIS	1785 1955	30		2	1	0			37			L	4	AC		
	2830 1952	30		4	0	0			36			S	9	AL		
(CONTINUED ON NEXT PAGE)																

(CONTINUED ON NEXT PAGE)



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Cr. fur API (%)	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
*LOUGEN +, PAYETTE, EFFINGHAM, 6-9N, 2-4E																
	GENEVA, DEV	3000	1937	2990			116	24	0		28	0.48	0	15	A	
	TRENTON, ORD	3905	1955	20			2	0	0				L	12	A	
LOUISVILLE, CLAY, 4N, 6E																
			1974	280	38.8	134.1	25	4	2	20						OEV 4865
	AUX VASES, MIS	2800	1974	40			4	0	0				S	6		
	SPAR MTN, MIS	2860	1974	280			5	0	2				S	10		
	MCCLOSKEY, MIS	2872	1974	#			17	4	0				OL	6		
	SALEM, MIS	3386	1974	10			1	0	0				L	4		
	ULLIN, MIS	3530	1974	10			1	0	0				L	4		
*LOUISVILLE N, CLAY, 4N, 6E																
			1953	110	0.0	56.3	8	0	0	1					M	MIS 2977
	AUX VASES, MIS	2755	1953	40			2	0	0		37		S	10	ML	
	SPAR MTN, MIS	2812	1961	70			6	0	0		37		L	9	ML	
	ABO 1956, REV 1962, ABO 1973, REV 1974															
LOUISVILLE S, CLAY, 3N, 6E																
			1960	20	0.3	1.0	2	0	0	1						OEV 4740
	AUX VASES, MIS	2823	1960	10			1	0	0		38		S	6		
	OHARA, MIS	2893	1960	10			1	0	0		36		L	2		
	ABO 1967, REV 1976															
LYNCHBURG, JEFFERSON, 3S, 4E																
	MCCLOSKEY, MIS	3045	1951	60	1.8	323.0	3	0	0	1	38		L	8	AC	MIS 3579
*MCKINLEY, WASHINGTON, 3S, 4W																
			1940	250	0.2	767.2	30	0	0	6					O	ORD 3983
	BENOIST, MIS	1050	1940	180			17	0	0		41	0.18	S	5	O	
	SILURIAN	2240		190			12	0	0		40		L	40	R	
MADEONIA, FRANKLIN, 5S, 4E																
	ULLIN, MIS	4097	1961	10	0.0	6.0	1	0	0	0	37		L	12		OEV 5249
	ABO 1965															
*MAIN C +, CRAWFORD, LAWRENCE, JASPER, 5-8N, 10-14W																
			1906	62000	1569.7	228402.3	11743	100	64	3282						STP 5317
	CUBA, PEN	510		59840			75	0	0		32		S	X	ML	
	UNNAMED, PEN	750		#			4	0	0				S	5	ML	
	ROBINSON, PEN	950		#			10196	68	61		35		S	25	ML	
	PENNSYLVANIAN	1250		#			44	10	1				S	X	ML	
	BARLOW, MIS	1201	1968	10			1	0	0				OL	10		
	CYPRESS, MIS	1480	1954	660			43	0	0		34		S	15	ML	
	PAINT CREEK, MIS	1280		5020			X	0	0		36		S	30	ML	
	BETHEL, MIS	1400		#			168	0	0		36		S	18	ML	
	AUX VASES, MIS	1430		2940			133	2	0		35		S	15	ML	
	SPAR MTN, MIS	1515		680			2	0	0				S	6	MC	
	MCCLO(DBLONG), MIS	1400		#			149	0	0		35		L	X	MC	
	SALEM, MIS	1815	1947	290			14	0	2		37		L	5	MC	
	DEVONIAN	2795	1941	420			14	3	0		40		L	11	MC	
	TRENTON, ORD	3900	1976	320			19	18	0				L	75		
*MAPLE GROVE C, EDWARDS, WAYNE, 1-2N, 9-10E																
			1943	2330	24.9	4597.5	130	3	0	34					A	OEV 5220
	AUX VASES, MIS	3145	1943	670			45	2	0		38		S	15	A	
	OHARA, MIS	3230	1945	1740			6	1	0		27		L	3	AC	
	SPAR MTN, MIS	3250		#			4	2	0				L	1	AC	
	MCCLOSKEY, MIS	3260	1943	#			83	0	0		41		L	6	A	
	ST LOUIS, MIS	3500	1977	10			1	1	0				L	6		
	SALEM, MIS	3660	1967	40			4	0	0		39		L	4		
	ULLIN, MIS	4057	1976	20			2	0	0				L	7		
MAPLE GROVE S, EDWARDS, 1N, 10E																
	MCCLOSKEY, MIS	3250	1945	20	0.0	10.5	2	0	0	0	38		L	10	MC	MIS 3358
	ABO 1950, REV 1970, ABO 1973															
MARCOE, JEFFERSON, 3S, 2E																
			1938	20	0.9	14.9	2	0	0	2						MIS 3520
	SPAR MTN, MIS	2700	1976	10			1	0	0				S	18		
	MCCLOSKEY, MIS	2745	1938	20			2	0	0		25	0.54	L	15	MC	

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*MARINE, MADISON, 4N, 6W	(CONTINUED FROM PREVIOUS PAGE)															
-----	DEV-SIL	1700	1943	2470	40.0	11935.8	148	0	0	116	35	0.28	L	20 R	ORO	2619
MARINE W, MADISON, 5N, 7W																
-----	DEVONIAN	1653	1965	100	0.0	25.1	6	0	0	1	35		L	3	ORO	2355
MARION, WILLIAMSON, 9S, 3E																
-----	AUX VASES, MIS	1950		20	0.1	0.3	2	0	0	1					MIS	2560
	OMARA, MIS	2385	1950	10			1	0	0	40			S	5		
		2470	1975	10			1	0	0				L	8		
	ARO 1951, REV 1975															
MARION E, WILLIAMSON, 9S, 3E																
-----	BETHEL, MIS	2295	1959	10	0.0	1.1	2	0	0	0	37		S	8	MIS	2642
	ABO 1963															
MARISSA W +, ST. CLAIR, RANDOLPH, 3-4S, 7W																
-----	CYPRESS, MIS	215	1960	70	0.0	0.0	3	0	0	0	25		S	3	ORO	2413
	ABO 1966															
*MARKHAM CITY, JEFFERSON, 2-3S, 4E																
-----	STE. GEN, MIS	3070	1942	340	3.1	1603.1	19	0	0	4	38	0.08	L	10 A	MIS	4050
*MARKHAM CITY N, JEFFERSON, WAYNE, 2S, 4-SE																
-----	AUX VASES, MIS	1943		310	6.6	1444.1	23	0	0	9				A	MIS	3169
	MCCLOSKEY, MIS	2950	1944	120			9	0	0	38			S	6 AL		
		3075	1943	310			16	0	0	37	0.24		L	8 AC		
*MARKHAM CITY W, JEFFERSON, 2-3S, 4E																
-----	AUX VASES, MIS	1945		500	0.9	2385.0	40	0	0	3				A	MIS	3797
	MCCLOSKEY, MIS	2905	1945	310			19	0	0	39			S	15 AL		
	SALEM, MIS	3035	1946	310			23	0	0	37			L	7 AC		
		3774	1969	10			1	0	0				L	4		
*MARTINSVILLE, CLARK, 9-10N, 13-14W																
-----	SHALLOW, PEN	1907		2590	X	X	374	13	0	152				O	STP	3411
	CASEY, PEN	255		2290			10	0	0				S	X O		
	MARTINSVILLE, MIS	500		#			98	0	0				S	X U		
	CARPER, MIS	480		520			28	0	0				L	X O		
	DEVONIAN	1340		1040			84	0	0	37			S	40 O		
	TRENTON, ORO	1550		700			45	0	0	38			L	X O		
		2700		390			22	13	0	40			L	X O		
	SEE CLARK COUNTY DIVISION FOR PRODUCTION															
*MASON N, EFFINGHAM, 6N, SE																
-----	BENOIST, MIS	1951		240	3.3	404.0	16	0	0	9				A	MIS	2553
	AUX VASES, MIS	2290	1951	180			11	0	0	38			S	13 AL		
	SPAR MTN, MIS	2355	1951	10			1	0	0	36			S	5 AL		
	MCCLOSKEY, MIS	2390	1951	90			4	0	0				L	18 AC		
		2475		#			3	0	0	37			L	5 AC		
MASSILON, WAYNE, EDWARDS, 1S, 9-10E																
-----	OMARA, MIS	3255	1946	70	0.0	91.2	3	0	0	0	37		L	6 MC	MIS	3472
	ABO 1953															
MASSILON S, EDWARDS, 1S, 10E																
-----	OMARA, MIS	3315	1947	10	0.0	0.3	1	0	0	0	37		L	9 MC	MIS	3441
	ABO 1947															
*MATTOON, COLES, 11-12N, 7-8E																
-----	CYPRESS, MIS	1939		6160	156.4	20095.9	567	9	1	247				A	STP	4915
	AUX VASES, MIS	1750	1939	3360			261	4	1	39	0.16		S	13 A		
	SPAR MTN, MIS	1900		580			29	1	0	32			S	15 AL		
	MCCLOSKEY, MIS	1950	1944	4840			394	0	0	38	0.21		S	12 A		
	SALEM, MIS	2010		#			8	2	0	37			L	5 AC		
	CARPER, MIS	2236	1977	60			4	4	0				L	6		
	DEVONIAN	2950	1955	420			23	0	0	39			S	10 A		
		3162	1970	30			4	0	0	34				9		
*MATTOON N, COLES, 13N, 7E																
-----	SPAR MTN, MIS	1902	1960	160	2.0	365.8	12	0	4	4	40		S	12 A	MIS	1967

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County Location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
MATTOON 3, CUMBERLAND, 11N, 7E																
CARPER, MIS																
		3035	1962	50	0.0	4.7	3	0	0	0	38		S	10	MIS	3337
				A80 1966												
MAUNIE E, WHITE, 6S, 11E																
		1951		80	0.5	63.2	6	0	0	1					AF	MIS 3088
	TAR SPRINGS, MIS	2280	1962	10			1	0	0		35		S	8	AF	
	AUX VASES, MIS	2870	1951	70			5	0	0		35		S	20	AF	
				A80 1952, REV 1955												
MAUNIE N C, WHITE, 5-6S, 10-11E, 14W																
		1941		2130	26.0	4981.5	177	0	1	45					A	MIS 4016
	PENNSYLVANIAN	1320		10			1	0	0		34		S	20	AL	
	WALTERSBURG, MIS	2305	1952	130			10	0	0		37		S	12	AL	
	TAR SPRINGS, MIS	2350		160			10	0	0		35		S	10	AL	
	HAROLDSBURG, MIS	2565		10			1	0	0		36		S	10	A	
	SAMPLE, MIS	2830		480			2	0	0		35		S	13	AL	
	BETHEL, MIS	2820	1941	#			30	0	0		35		S	13	AL	
	RENAULT, MIS	2935		10			1	0	0		36		L	2	AC	
	AUX VASES, MIS	2930	1943	870			93	0	1		35		S	13	AL	
	OMARA, MIS	2995	1944	890			8	0	0		37		L	4	AC	
	SPAR MTN, MIS	3025	1947	#			24	1	1		36		L	6	AC	
	MCCLOSKEY, MIS	3035	1945	#			24	0	0		33		L	10	AC	
MAUNIE SOUTH C, WHITE, 6S, 10-11E																
		1941		1750	57.0	7329.5	174	2	0	55					A	DEV 4908
	BRIDGEPORT, PEN	1400		180			11	0	0		24		S	7	AL	
	BIEM, PEN	1649	1959	#			3	0	0		31		S	X	AL	
	OEGONIA, MIS	1900	1942	120			13	0	0		35		S	10	AL	
	PALESTINE, MIS	2010	1941	640			94	0	0		35		S	17	AL	
	WALTERSBURG, MIS	2210		20			2	0	0		37		S	19	AL	
	TAR SPRINGS, MIS	2270	1942	830			53	1	0		35		S	16	AF	
	CYPRESS, MIS	2590		390			30	1	0		36		S	10	AL	
	BETHEL, MIS	2735		10			1	0	0		37		S	X	AL	
	AUX VASES, MIS	2845	1941	180			13	1	0		37		S	12	AL	
	SPAR MTN, MIS	2900		40			1	0	0				L	8	AC	
	MCCLOSKEY, MIS	2920		#			4	0	0		35		L	6	AC	
	ST LOUIS, MIS	3293	1975	10			1	0	0				L	9		
	SALEM, MIS	3874	1973	10			1	0	0				L			
	ULLIN, MIS	3964	1975	10			1	0	0				L	6		
MAYBERRY, WAYNE, 2-3S, 6E																
		1941		160	11.5	406.6	14	7	0	9					A	DEV 5377
	MCCLOSKEY, MIS	3350	1941	130			8	1	0		39	0.16	L	8	AC	
	SALEM, MIS	3840	1977	20			2	2	0				L	8		
	ULLIN, MIS	4300	1977	60			6	6	0				L	25		
MAYBERRY N, WAYNE, 2S, 6E																
				10	0.0	1.4	1	0	0	0	39		L	2	MIS	3463
				A80 1950												
MECHANICSBURG, SANGAMON, 16N, 3W																
		1734	1972	140	18.6	170.1	10	0	1	8			L	16	SIL	1776
	SILURIAN															
MELROSE, CLARK, 9N, 13W																
		840	1953	180	4.8	X	16	2	0	5	35		S	10	PEN	914
	ISABEL, PEN															
MELROSE 8, CLARK, 9N 13W																
		865	1953	20	0.0	0.0	2	0	0	0	35		S	7	PEN	888
				A80 1959, REV 1964, A80 1969												
MILETUS, MARION, 4N, 4E																
		1947		220	1.4	365.8	16	0	0	4					A	DEV 3950
	BENOIST, MIS	2140	1947	130			8	0	0		35		S	7	A	
	AUX VASES, MIS	2200	1947	140			8	0	0		36		S	7	A	
	MCCLOSKEY, MIS	2350	1947	50			3	0	0		36		L	5	A	
MILLERSBURG, BOND, 4N, 4W																
		2130	1967	20	0.0	10.3	2	0	0	0	38		S	2	DEV	2160
				A80 1971												
MILL SHOALS, WHITE, HAMILTON, WAYNE, 2-4S, 7-8E																
		1939		3230	64.2	11842.3	249	0	1	72					A	MIS 5455
				2700			198	0	1		36	0.14	S	11	A	
	AUX VASES, MIS	3245		1030			9	0	0				OL	11	AC	
	OMARA, MIS	3320														
(CONTINUED ON NEXT PAGE)																

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- duc- ing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*MILL SHOALS, WHITE, HAMILTON, WAYNE, 2-4S, 7-8E																
(CONTINUED FROM PREVIOUS PAGE)																
-----																
	SPAR MTN, MIS	3345	#				14	0	0				LS	8	AC	
	MCCLOSKEY, MIS	3375 1939	#				40	0	0		36		OL	5	AC	
	ST. LOUIS, MIS	3546 1960	10				1	0	0		39		L	10	AC	
	SALEM, MIS	3970 1961	10				2	0	0		38		L	4	A	
	ULLIN, MIS	4110 1959	10				1	0	0		38		L	10	A	
-----																
MILLS PRAIRIE, EDWARDS, 1N, 14W																
	OHARA, MIS	2925 1948	10	0.0	1.9	1	0	0	0	37			L	5	MC	MIS 3010
			ABO 1952													
-----																
MILLS PRAIRIE N, EDWARDS, 1N, 14W																
	OHARA, MIS	2925 1953	30	0.0	4.9	2	0	0	0	37			L	5	MC	MIS 3003
			ABO 1956													
-----																
MITCHELLSVILLE, SALINE, 10S, 6E																
	DEGONIA, MIS	1330 1955	30	0.7	24.5	3	0	0	1							MIS 2452
	WALTERSBURG, MIS	1505 1955	10			1	0	0		35			S	6		
	CYPRESS, MIS	2107 1973	10			1	0	0		38			S	9		
						1	0	0					S	20		
-----																
*MODE, SHELBY, 10N, 4E																
	BETHEL, MIS	1682 1961	360	0.8	334.8	18	0	0	13							OEV 3265
	BENOIST, MIS	1742 1961	120			8	0	0		35			S	12		
	AUX VASES, MIS	1772 1961	360			13	0	0		34			S	8		
			10			2	0	0		37			S	8		
-----																
MONTROSE, EFFINGHAM, 8N, 7E																
	MCCLOSKEY, MIS	2523 1968	80	3.9	128.4	6	0	0	3				L	7		MIS 3005
-----																
*MONTROSE N, CUMBERLAND, 9N, 7E																
	MCCLOSKEY, MIS	2500 1969	20	0.3	19.7	2	0	0	2				OL	10		OEV 3980
-----																
*MT. AUBURN C, CHRISTIAN, 15N, 1-2W																
	SILURIAN	1920 1943	7240	43.0	6636.4	433	0	1	121	37	0.28		L	15	MU	TRN 2577
-----																
*MT. CARMEL ++, WABASH, 1N, 1S, 12W																
	BRIDGEPORT, PEN	1370 1946	4660	210.6	18316.1	540	1	5	191							OEV 4237
	BIEHL, PEN	1470	1160			5	0	0		34			S	20	AL	
	JORDAN, PEN	1520	#			67	0	0		36	0.28		S	20	AL	
	PALESTINE, MIS	1580	#			6	0	0		35			S	15	AL	
	WALTERSBURG, MIS	1690	60			5	0	0		35			S	10	AL	
	TAR SPRINGS, MIS	1790 1939	30			3	0	0		36			S	10	AL	
	JACKSON, MIS	2020 1945	430			35	0	2		36			S	13	AL	
	CYPRESS, MIS	2025 1940	10			1	0	0		36			S	25	AL	
	SAMPLE, MIS	2095	3660			336	1	1		38	0.17		S	15	AL	
	BETHEL, MIS	2110	180			4	0	0		37			S	7	AL	
	OHARA, MIS	2320	#			13	0	0		35			S	16	AL	
	SPAR MTN, MIS	2350	1340			21	0	1		35			OL	5	AC	
	MCCLOSKEY, MIS	2360	#			14	0	0		39	0.26		S	5	AL	
	SALEM, MIS	2696 1966	#			66	0	1		37	0.42		OL	6	AC	
			50			5	0	0					L	14		
-----																
MT. ERIE N, WAYNE, 1N, 9E																
	AUX VASES, MIS	3110 1944	200	0.0	390.7	14	0	0	1							MIS 4100
	OHARA, MIS	3170 1949	110			5	0	0		40			S	8	ML	
	MCCLOSKEY, MIS	3240 1944	130			2	0	0					L	6	MC	
			#			5	0	0		37			L	5	MC	
-----																
MT. OLIVE +, MONTGOMERY, 8N, 5W																
	POTTSVILLE, PEN	605 1942	80	0.2	x	6	0	0	5	33	0.16		S	6	A	SIL 1878
-----																
MT. VERNON, JEFFERSON, 3S, 3E																
	AUX VASES, MIS	2665 1943	230	7.8	343.3	17	2	0	6							MIS 3262
	OHARA, MIS	2750 1943	70			5	0	0		36			S	8	A	
	MCCLOSKEY, MIS	2800 1943	160			2	0	0					L	6	AC	
			#			12	2	0		39	0.18		L	7	AC	
-----																
MT. VERNON N, JEFFERSON, 2S, 3E																
(CONTINUED ON NEXT PAGE)																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County Location by Township and range *Secondary recovery— See Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
NEW HARMONY C ++, WHITE, WABASH, EDWARDS, 1N, 1-53, 13-14W																
MCCLOSKEY, MIS	2675	1956		20	0.6	64.7		2	0	0		2	38	L	6	MIS 2751
MURDOCK, DOUGLAS, 16N, 10E																
PENNSYLVANIAN	370	1955		10	0.0	0.0		3	0	0		0	36	S	16	PEN 424
ABO 1957, REV 1961, ABO 1968																
NASHVILLE, WASHINGTON, 28, 3W																
DEVONIAN	2625	1973		390	89.5	693.2		31	0	0		24				ORO 3776
SILURIAN	2650	1973		40				4	0	0				0	20	
				370				29	0	0		41		L	40 R	
NASON, JEFFERSON, 3-48, 2E																
OHARA, MIS	2758	1943		30	0.5	53.3		3	0	0		1			HL	MIS 3925
SPAR MTN, MIS	2790	1962		30				1	0	0		37		L	8	
		1943		#				2	0	0		37		S	12 HL	
NEW BADEN E, CLINTON, 1N, 5W																
SILURIAN	1935	1958		290	9.5	252.8		23	0	0		14	39	L	15 R	SIL 2200
NEW BELLAIR, CRAWFORD, 8N, 13W																
ISABEL, PEN	650	1942		130	0.0	10.0		8	0	0		1			M	DEV 2832
CYPRESS	1165	1942		20				2	0	0		32		S	3 ML	
AUX VASES, MIS	1280	1956		60		10.0		3	0	0		29	0.30	S	10 ML	
								3	0	0				S	20 M	
ABO 1948, REV 1952, ABO 1954, REV 1956																
NEW CITY, SANGAMON, 14N, 4W																
SILURIAN	1730	1954		440	5.1	215.6		39	2	0		10	39	L	11 HU	SIL 1855
NEW CITY S, CHRISTIAN, 14N, 4W																
SILURIAN	2008	1963		20	0.0	63.4		2	0	0		0	39	L	17	SIL 1918
ABO 1974																
NEW DOUGLAS S, SONO, 6N, 5W																
PENNSYLVANIAN	640	1957		20	0.0	3.4		2	0	0		0	32	S	7	PEN 705
ABO 1960																
NEW HARMONY C ++, WHITE, WABASH, EDWARDS, 1N, 1-53, 13-14W																
JAMESTOWN, PEN	720	1939		25890	1296.4	159157.1		2644	14	7		1017			A	SHK 7682
BRIDGEPORT, PEN	1340			1870				4	0	0		32		S	13 AL	
MANSFIELD, PEN	0			#				9	0	0				S	7 AL	
STIEHL, PEN	1850			#				0	0	0				S	X AL	
JORDAN, PEN	1760			#				132	1	0		33		S	20 AL	
DEGONIA, MIS	1925			#				0	0	0				S	X AL	
CLORE, MIS	1980			130				10	0	0		34		S	10 AL	
PALESTINE, MIS	2000			100				11	0	0		36		S	10 AL	
WALTERSBURG, MIS	2155			270				23	0	0		25		S	10 AL	
TAR SPRINGS, MIS	2215			1290				129	1	0		36	0.40	S	20 AL	
HARDINSBURG, MIS	2290	1958		2570				217	2	2		35	0.19	S	26 ALF	
CYPRESS, MIS	2570			20				1	0	0		35		L	10 ALF	
SAMPLE, MIS	2660			11000				1074	8	3		35		S	20 ALF	
BETHEL, MIS	2700			11070				60	0	0		36		S	20 ALF	
RENAULT, MIS	2761			#				885	1	4		37	0.24	S	27 ALF	
AUX VASES, MIS	2800			10				1	0	0		34			8	
OHARA, MIS	2900			8440				626	3	1		37	0.19	S	15 ALF	
SPAR MTN, MIS	2910			5250				56	0	0		39		OL	6 AC	
MCCLOSKEY, MIS	2925			#				50	0	0		38		LS	10 AC	
ST. LOUIS, MIS	3153	1953		#				277	1	1		37	0.33	OL	8 AC	
SALEM, MIS	3364	1959		310				23	0	0		36		L	X	
ULLIN, MIS	3755			290				21	1	1		37		L	16 AC	
				60				5	1	0		36		L	6 AC	
NEW HARMONY S (ILL), WHITE, 58, 14W																
WALTERSBURG, MIS	2250	1941		90	0.1	113.3		8	0	0		1			A	MIS 3207
TAR SPRINGS, MIS	2350			30				3	0	0		35		S	18 AF	
CYPRESS, MIS	2670	1951		10				1	0	0		36		S	16 AF	
BETHEL, MIS	2815			10				1	0	0		35		S	8 AF	
AUX VASES, MIS	3005	1949		20				2	0	0		36		S	10 AF	
MCCLOSKEY, MIS	3010			10				1	0	0		37		S	7 AF	
				20				1	0	0		37		L	5 AF	
NEW HARMONY S (IND) ++, WHITE, 58, 14W																
				1946				6	0	0		1			T	MIS 3068
(CONTINUED ON NEXT PAGE)																



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery—see Part II, p. 73-144)	Pay zone		Year of discovery	Area proved in acres	Oil production (M bbl)		Number of wells			Character of oil		Pay zone		Deepest test		
	Name and age	Depth (ft)			During 1977	To end of 1977	Completed to end of 1977	Completed in 1977	Abandoned 1977	Producing end of year	Gr. API	Sulfur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*NEW HARMONY S (IND) ++, WHITE, 5S, 14W																
(CONTINUED FROM PREVIOUS PAGE)																
DEGONIA, MIS		1850		20			2	0	0		35	S	8	TF		
PALESTINE, MIS		1955		50			1	0	0		24	S	10	TF		
WALTERSBURG, MIS		2120		50			3	0	0		37	S	30	TF		
*NEW HAVEN C ++, WHITE, 7S, 10-11E																
DEGONIA, MIS		1789	1941	710	65.9	2565.7	59	2	0	32			A	MIS	3900	
TAR SPRINGS, MIS		2105	1975	10			1	0	0			S	6			
HARDINSBURG, MIS		2245	1941	290			22	0	0		38	0.27	S	12	AF	
CYPRESS, MIS		2445		10			1	0	0		36		S	8	AF	
AUX VASES, MIS		2445	1949	460			19	1	0		39		S	12	AF	
OHARA, MIS		2720		130			11	1	0		37		S	15	AF	
SPAR MTN, MIS		2799	1959	120			2	0	0				L	12	A	
MCCLOSKEY, MIS		2828	1960	#			1	0	0				L	15	A	
		2820		#			5	0	0		35		OL	6	AC	
NEW MEERON E ++, CRAWFORD, 6N, 12W																
AUX VASES, MIS		1555	1954	50	0.0	0.3	4	0	0	0	35	S	4	MIS	1571	
				ABO 1965												
*NEW MEMPHIS, CLINTON, 1N, 1S, 5W																
SILURIAN		1980	1952	780	42.4	2561.9	43	3	0	41	41	L	R	7RN	2900	
NEW MEMPHIS N, CLINTON, 1N, 5W																
OEVSIL		2050	1954	90	19.8	79.6	7	0	0	7	40	L	15	ORD	2915	
NEW MEMPHIS S, CLINTON, WASHINGTON, 1S, 5W																
SILURIAN		2000	1952	20	0.0	0.7	2	0	0	0	41	L	25	ORD	2914	
				ABO 1952, REV 1956, ABO 1961												
*NEWTON, JASPER, 6N, 9E																
STE. GEN, MIS		2950	1944	50	1.3	109.1	6	0	0	1	37	L	6	MC	MIS	3040
				ABO 1962, REV 1969												
NEWTON N, JASPER, 7N, 10E																
MCCLOSKEY, MIS		2855	1945	100	0.3	7.4	7	0	0	1	37	L	5	MC	MIS	2968
				ABO 1948, REV 1960, ABO 1966, REV 1976												
NEWTON W, JASPER, 6-7N, 9E																
SPAR MTN, MIS		2912	1947	550	4.5	307.8	35	0	0	10					MIS	3425
MCCLOSKEY, MIS		3000	1947	550			12	0	0				L	5		
				#			29	0	0	38			L	7	MC	
				ABO 1947, REV 1952, ABO 1953, REV 1961												
NOBLE W, CLAY, 3N, 8E																
MCCLOSKEY, MIS		3035	1951	10	0.0	9.3	1	0	0	0	36	L	8	MIS	3622	
				ABO 1959												
*OAKDALE, JEFFERSON, 2S, 4E																
AUX VASES, MIS		2860	1956	450	7.2	869.1	34	0	0	10					MIS	3767
MCCLOSKEY, MIS		2985	1956	370			26	0	0	38		S	35			
				90			9	0	0	37		L	5			
*OAKDALE N, JEFFERSON, 2S, 4E																
MCCLOSKEY, MIS		2932	1960	170	6.8	675.2	13	1	1	8	37	OL	5	MIS	3630	
OAKLEY, MACON, 16N, 3E																
CEDAR VALLEY, OEVSIL		2285	1954	170	0.0	22.9	10	0	0	1	37	L	5	OEVSIL	2335	
				ABO 1965, REV 1974												
*OAK POINT, CLARK, JASPER, 8-9N, 14W																
ISABEL, PEN		560	1952	780	6.1	564.8	63	0	0	29			M	OEVSIL	2691	
AUX VASES, MIS		1185	1955	10			1	0	0			S	10	ML		
CARPER, MIS		2220	1952	680			55	0	0	37		S	17			
				90			7	0	0			S	X	ML		
OAK POINT W, CLARK, CUMBERLAND, 9N, 11E, 14W																
AUX VASES, MIS		1190	1955	120	0.2	17.8	10	0	0	6	35	S	8	MIS	1560	

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure		Zone	Depth (ft)
OCONEE, SHELBY, 10N, 1E																
LINGLE, OEV		2850	1975	70	5.2	19.6	4	0	0	4			S	6	OEV	3139
MOON, MARION, 2N, 1-2E																
			1945	350	3.9	1867.9	34	0	1	25					OEV	3597
CYPRESS, MIS		1750	1945	340			30	0	1		37		S	13	AL	
BENDIST, MIS		1912	1963	10			1	0	0		37		S	3		
MCCLOSKEY, MIS		2085	1957	30			4	0	0		37		L	12	A	
OKAWVILLE, WASHINGTON, 1S, 4W																
SILURIAN		2325	1951	50	0.0	63.3	4	0	0	0	40		L	3	R	SIL
				ABO 1969												2603
OKAWVILLE NC, WASHINGTON, 1S, 4W																
OEVSIL		2200	1955	220	6.8	167.9	17	0	0	11	40		L		ORO	3070
OLD RIPLEY, BONO, 5N, 4W																
			1954	880	11.2	533.7	85	5	0	63					OEV	2221
PENNSYLVANIAN		600	1954	870			84	5	0		34		S	17	A	
AUX VASES, MIS		941	1964	10			1	0	0		36		S	19		
OLD RIPLEY N, BONO, 5N, 4W																
MARDIN, OEV		1991	1962	20	0.0	3.0	1	0	0	0	35		S	1	OEV	2040
				ABO 1966												
OLNEY C, RICHLAND, JASPER, 4-5N, 10																
			1938	3930	41.7	8330.3	229	2	1	31					MIS	3850
AUX VASES, MIS		2918	1960	90			6	1	0		37		S	X	A	
OMARA, MIS		3005	1943	3860			15	0	0		37	0.19	L	6	A	
SPAR MTN, MIS		3050	1946	#			76	0	0		37	0.19	L	5	A	
MCCLOSKEY, MIS		3100	1938	#			140	1	1		37	0.19	L	6	A	
OLNEY S, RICHLAND, 3N, 10E																
			1937	1010	3.3	1076.6	60	0	1	18					OEV	4910
OMARA, MIS		3142	1962	1010			1	0	0				L	4	M	
SPAR MTN, MIS		3100		#			38	0	1		36		L	4	MC	
MCCLOSKEY, MIS		3115		#			36	0	0		37		L	3	MC	
OMAHA +, GALLATIN, 7-8S, 8E																
			1940	1760	92.7	6076.1	160	0	3	90					OEV	5320
JAKE CREEK, PEN		385		340			15	0	0		26		S	20	O	
PENNSYLVANIAN		580		#			5	0	0		19		S	10	O	
BIHEL, PEN		1335	1948	#			5	0	0		22		S	10	O	
PALESTINE, MIS		1700	1940	410			27	0	2		26	0.24	S	15	O	
TAR SPRINGS, MIS		1900		170			9	0	1		27		S	15	O	
MARDINSBURG, MIS		2179	1961	80			6	0	0		29		S	18	O	
CYPRESS, MIS		2402	1959	150			12	0	1		35		S	12	O	
PAINT CREEK, MIS		2450	1961	40			1	0	0		37		S	10	O	
BEEMEL, MIS		2570	1955	#			3	0	0				S	16	O	
AUX VASES, MIS		2730	1955	890			67	0	0		40		S	20	O	
OMARA, MIS		2734	1958	350			18	0	0		39		L	16	O	
SPAR MTN, MIS		2722	1958	#			5	0	0				S	8	O	
MCCLOSKEY, MIS		2800	1961	#			6	0	0				L	X	O	
OMAHA E, GALLATIN, 8S, 8E																
			1946	130	0.0	61.2	11	0	0	1					MIS	3007
CYPRESS, MIS		2530	1957	30			3	0	0		41		S	6	M	
AUX VASES, MIS		2790		10			1	0	0		38		S	X	M	
OMARA, MIS		2855	1946	90			3	0	0		37		L	8	MCF	
SPAR MTN, MIS		2942	1960	#			1	0	0				L	9	MCF	
MCCLOSKEY, MIS		2884	1958	#			3	0	0		38		L	10	MCF	
OMAHA S, GALLATIN, SALINE, 8S, 7-8E																
			1951	140	0.8	94.3	9	0	0	2					MIS	3035
CYPRESS, MIS		2535	1953	90			5	0	0		36		S	15	NL	
AUX VASES, MIS		2870	1955	40			3	0	0		38		S	11	N	
SPAR MTN, MIS		2865	1951	10			1	0	0		37		L	1	NC	
					ABO 1965, REV 1969											
OMAHA W, SALINE, GALLATIN, 7-8S, 7-8E																
			1950	160	11.5	415.0	14	0	0	12					MIS	3025
CYPRESS, MIS		2600	1950	70			6	0	0		38		S	14	AL	
SAMPLE, MIS		2600	1967	80			6	0	0		38		S	12		

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
*OMAHA W, SALINE, GALLATIN, 7-8S, 7-8E	AUX VASES, MIS	2300	1950	20			2	0	0		37		S	30	AL	
	MCCLOSKEY, MIS	2910		10			1	0	0		38		L	8	AC	
OMEGA, MARION, 3N, 4E																
	BENOIST, MIS	2280	1946	80	0.0	25.4	6	1	0	1						MIS 3150
	MCCLOSKEY, MIS	2490	1946	10			1	0	0		33		S	3		
				70			5	1	0		38		L	10	O	
					ABO 1949, REV 1963, ABO 1968, REV 1977											
OPOYKE, JEFFERSON, 3S, 4E																
	OHARA, MIS	3016	1961	40	0.0	7.2	2	0	0	0						MIS 3175
	MCCLOSKEY, MIS	3074	1961	40			1	0	0				L	8		
				#			2	0	0		37		OL	20		
					ABO 1967											
*ORCHAROVILLE, WAYNE, 1N, 5E																
	SAMPLE, MIS	2655	1950	200	7.1	333.9	17	0	0	9						MIS 4000
	AUX VASES, MIS	2800	1951	10			1	0	0		36		S	A		
	OHARA, MIS	2380		190			13	0	0		36		S	16	AL	
	MCCLOSKEY, MIS	2905	1950	60			2	0	0		37		L	3	AC	
				#			4	0	0				L	5	AC	
ORCHAROVILLE N, WAYNE, 1N, 5E																
	PAINT CREEK, MIS	2655	1956	20	0.3	24.3	2	0	0	1						DEV 4684
	AUX VASES, MIS	2730	1971	10			1	0	0				S	6		
				10			1	0	0				S	4		
					ABO 1964, REV 1971											
*ORIENT, FRANKLIN, 7S, 2E																
	AUX VASES, MIS	2660	1965	40	5.5	188.2	4	0	0	4	38		S	24		MIS 2850
ORIENT N, FRANKLIN, 7S, 2E																
	AUX VASES	2680	1967	10	0.0	0.3	1	0	0	0	38		S	4		MIS 3049
					ABO 1972											
*OSKALOOSA, CLAY, 3-4N, 5E																
	BENOIST, MIS	2595	1950	490	5.0	2615.7	44	0	0	9						DEV 4510
	AUX VASES, MIS	2643	1958	450			40	0	0		37		S	15	A	
	MCCLOSKEY, MIS	2755	1957	150			11	0	0		37		S	X	A	
				280			14	0	0		36		L	5	A	
OSKALOOSA E, CLAY, 3N, 5-6E																
	AUX VASES, MIS	2820	1947	30	0.0	35.2	2	0	0	0						MIS 3397
	MCCLOSKEY, MIS	2995	1951	20		7.0	1	0	0		37		S	5	AL	
				10		28.0	1	0	0		33		L	4	AC	
					ABO 1954											
OSKALOOSA S, CLAY, 3N, 5E																
	STE GENEVIEVE, MIS	2770	1951	130	2.3	87.7	11	0	0	5	35		L	4	AC	ORO 5843
*PANA, CHRISTIAN, 11-12N, 1E																
	BENOIST, MIS	1470	1951	60	2.9	128.4	5	0	1	3	37		S	8		DEV 2847
PANA S, CHRISTIAN, 11N, 1E																
	DEVONIAN	2881	1974	130	0.0	0.1	6	0	0	6			L	5		DEV 2929
PANAMA +, BOND, MONTGOMERY, 7N, 3-4W																
	GOLCONOA, MIS	705	1940	60	0.3	22.7	6	0	0	1						DEV 2016
	BENOIST, MIS	865		40			4	0	0		31		L	12	A	
				30			3	0	0		28		S	12	A	
PANKEYVILLE, SALINE, 9S, 6E																
	CYPRESS, MIS	2250	1956	30	0.0	6.1	2	0	0	0						MIS 2742
	AUX VASES, MIS	2511	1961	20		6.1	2	0	0		37		S	X		
				10			1	0	0		38		S	22		
					ABO 1957, REV 1961, ABO 1961											
PANKEYVILLE E, SALINE, 9S, 7E																
			1956	10	0.0	0.0	1	0	0	0						MIS 2604
(CONTINUED ON NEXT PAGE)																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
PANKEYVILLE E, SALINE, 9S, 7E																
	CYPRESS, MIS	2250	1956	10			1	0	0		37		S	X		
	PAINT CREEK, MIS	2360	1956	10			1	0	0		36		S	13		
					ABD 1957											
PARKERSBURG C, RICHLAND, EDWARDS, 1-3N, 10-11E, 14W																
			1941	5320	31.2	11120.7	320	2	1	62				A	OEV	5128
	PENNSYLVANIAN	2100	1967	1000			1	0	0		36		S	18		
	WALTERSBURG, MIS	2430	1950	150			12	0	0		39		S	10	A	
	TAR SPRINGS, MIS	2440	1967	10			1	0	0		36		S	2	A	
	CYPRESS, MIS	2630	1942	180			10	0	0		36		S	12	A	
	BETHEL, MIS	2930	1942	310			20	0	1		35		S	12	A	
	AUX VASES, MIS	3070		20			2	0	0		37		S	20	A	
	OHARA, MIS	3100		4700			5	1	0				L	10	A	
	SPAR MTN, MIS	3150	1945	#			57	1	0		36	0.34	L	10	A	
	MCCLOSKEY, MIS	3175	1941	#			201	0	0		36	0.31	OL	10	A	
PARKERSBURG S, EDWARDS, 1N, 14W																
			1948	100	3.9	97.7	9	0	1	3					MIS	3187
	PENNSYLVANIAN	1400	1950	70			6	0	0		35		S	10		
	CYPRESS	2750	1954	10			1	0	0		36		S	X		
	BETHEL, MIS	2815	1948	20			3	0	1		35		S	5		
PARKERSBURG W, RICHLAND, EDWARDS, 2N, 10E																
			1943	320	0.5	237.0	19	0	0	1				A	MIS	3780
	OHARA, MIS	3220	1945	320			2	0	0				L	5	AC	
	MCCLOSKEY, MIS	3260	1943	#			17	0	0		38		L	6	AC	
					ABD 1962, REV 1964, ABD 1965, REV 1976											
PARNELL, DEWITT, 21N, 4E																
			1963	610	12.3	193.7	39	0	0	38					TRN	1971
	SONORA, MIS	671	1963	590			36	0	0		32		S	12		
	DEVONIAN	1100	1964	20			3	0	0		37		S	12		
PASSPORT, CLAY, 4-5N, 8E																
			1945	990	11.5	3387.6	65	0	3	17				A	MIS	3831
	AUX VASES, MIS	2924	1964	20			5	0	0		36		S	6		
	SPAR MTN, MIS	3005	1945	970			2	0	0		38		L	5	AC	
	MCCLOSKEY, MIS	3020		#			59	0	3		37		L	10	A	
PASSPORT N, RICHLAND, 5N, 9E																
	AUX VASES, MIS	2940	1959	60	1.8	70.9	5	0	1	2	36		S	10	MIS	3564
PASSPORT S, RICHLAND, CLAY, 4N, 8-9E																
			1948	130	0.0	171.9	11	0	0	1				A	MIS	3692
	TAR SPRINGS, MIS	2368	1962	10			1	0	0		37		S	9		
	CYPRESS, MIS	2665	1948	80			7	0	0		38		S	15	AL	
	AUX VASES, MIS	2957	1960	10			1	0	0		36		S	8	A	
	SPAR MTN, MIS	3025	1948	40			1	0	0				L	6	AC	
	MCCLOSKEY, MIS	3030		#			2	0	0		38		L	8	AC	
PASSPORT W, CLAY, 4N, 8E																
	STE, GEN, MIS	3030	1954	150	0.0	69.4	11	0	0	0	37		L	5	AC	MIS 3570
					ABD 1967, REV 1971, ABD 1974											
PATOKA, MARION, CLINTON, 3-4N, 1E, 1W																
			1937	1560	23.9	14677.2	242	0	1	105					ORO	4056
	CYPRESS, MIS	1280		60			8	0	0		39		S	10	0	
	BENDIST, MIS	1410	1937	1000			180	0	1		37	0.16	S	27	0	
	AUX VASES, MIS	1459	1970	40			3	0	0				S	13		
	SPAR MTN, MIS	1550		510			15	0	1		39	0.31	S	9	0	
	GENEVA, DEV	2835	1943	30			3	0	0		40	0.28	O	10	0	
	TRENTON, ORO	3950	1956	630			34	0	0		42		L	25	0	
PATOKA E, MARION, 4N, 1E																
			1941	570	50.3	5678.8	65	1	1	37					ORO	4178
	CYPRESS, MIS	1340	1941	570			55	1	1		36	0.18	S	16	0	
	BENDIST, MIS	1465		50			5	0	0		36	0.23	S	10	0	
	MCCLOSKEY, MIS	1635	1953	40			3	0	0		34		L	6	0	
	GENEVA, DEV	2950	1952	20			2	0	0		35		O	30	R	
PATOKA S, MARION, 3N, 1E																
			1953	1020	45.1	2422.0	86	0	0	66				A	ORO	4041
(CONTINUED ON NEXT PAGE)																

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977--continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
PATOKA S, MARION, 3N, 1E																
(CONTINUED FROM PREVIOUS PAGE)																
CYPRESS, MIS	1350	1953	830			63	0	0		36	S	10	A			
BENOIST, MIS	1461	1959	230			20	0	0		37	S	15	A			
SPAR MTN, MIS	1624	1959	50			2	0	0			S	5	A			
TRENTON, ORO	3990	1973	120			4	0	0		43	L	18				
PATOKA W, FAYETTE, 4N, 1W																
BENOIST, MIS	1380	1950	200	0.0	303.6	20	0	0	0	32	S	6	A	MIS	1735	
			A80	1965												
*PHILLIPSTOWN C, WHITE, EDWARDS, 3-5S, 10-11E, 14W																
	1939	7070	590.3	29851.0	648	3	5		319				A	DEV	5350	
ANVIL ROCK, PEN	795	1943	1740			1	0	0		36	S	10	AF			
CLARK-BROGPT, PEN	1350		#			14	0	0		36	S	10	AF			
PENNSYLVANIAN	1450		#			14	0	0		36	S	10	AF			
BUCHANAN, PEN	1550		#			25	0	0		30	S	15	AF			
BIEHL, PEN	1875		#			85	0	3		33	0.22	S	15	AF		
KINKAIO, MIS	1954	1961	10			1	0	0			S	17	AF			
OEGONIA, MIS	1975	1943	800			65	0	0		38	S	15	AF			
CLORE, MIS	2010	1942	170			16	0	0		34	S	12	AF			
PALESTINE, MIS	2050	1942	140			14	1	1		32	S	11	AF			
WALTERSBURG, MIS	2280	1943	260			25	0	0		34	S	11	AF			
TAR SPRINGS, MIS	2295	1943	1350			107	1	0		35	S	15	AF			
CYPRESS, MIS	2720	1943	540			47	0	0		36	S	12	AF			
PAINT CREEK, MIS	2780	1944	1580			7	0	0		37	S	9	AF			
BETHEL, MIS	2810	1943	#			113	1	1		36	S	15	AF			
AUX VASES, MIS	2880	1939	1090			83	1	0		37	S	15	AF			
OHARA, MIS	3010	1943	2060			29	1	0		36	L	10	ACF			
SPAR MTN, MIS	2960		#			37	0	0		38	0.21	LS	10	ACF		
MCCLOSKEY, MIS	3000	1939	#			73	0	0		34	0.21	L	6	ACF		
ST LOUIS, MIS	3120	1976	10			1	0	0			L	20				
PINKSTAFF, LAWRENCE, 4N, 11W																
MCCLOSKEY, MIS	1735	1951	10	0.0	0.1	1	0	0	0	37	L	4		MIS	2290	
			A80	1951												
PINKSTAFF E, LAWRENCE, 4N, 11W																
STE GEN, MIS	1640	1955	130	4.0	X	9	0	1	7	35	L	6		MIS	2250	
			A80	1961, REV 1975												
PITTSBURG N +, WILLIAMSON, 8S, 3E																
BETHEL, MIS	1964		40	4.4	66.6	4	0	0	3					MIS	3070	
AUX VASES, MIS	2459	1972	10			1	0	0			S	8				
	2578	1964	30			3	0	0			S	8				
PIXLEY, CLAY, 4N, 8E																
CYPRESS, MIS	2680	1959	20	0.0	0.0	2	0	0	0	35	S	9		MIS	3121	
			A80	1960												
PLAINVIEW +, MACOUPIN, 9N, 8W																
PENNSYLVANIAN	410	1942	10	0.0	2.0	1	0	0	0	34	S	5		PEN	563	
PLAINVIEW S, MACOUPIN, 8N, 8W																
PENNSYLVANIAN	444	1959	10	0.0	X	1	0	0	0	34	S	8		PEN	642	
			A80	1962												
POSEN, WASHINGTON, 3S, 2W																
TRENTON, ORO	3900	1952	50	2.2	113.5	4	0	0	1	37	L	25	A	ORO	3954	
POSEN N, WASHINGTON, 3S, 2W																
TRENTON, ORO	4015	1953	10	0.0	3.9	1	0	0	0	37	L	15	AC	ORO	4112	
			A80	1959												
POSEN S, WASHINGTON, 3S, 2W																
BENOIST, MIS	1255	1955	50	0.0	X	4	0	0	0	34	S	7		MIS	1300	
			A80	1959												
POSEY, CLINTON, 1N, 2W																
CYPRESS, MIS	1105	1941	330	12.4	501.9	30	0	0	26					SIL	2798	
OEVONIAN	2675	1959	320			29	0	0		36	0.18	S	5	M		
			10			1	0	0		38	L	5	M			



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
POSEY E, CLINTON, 1N, 2W ----- OEV-SIL		2740	1952	470	19.3	641.2	27	0	0	23	38		L 8	OEV	2805	
POSEY W, CLINTON, 1N, 3W ----- DEVONIAN		2585	1954	20 ABO 1954, REV 1977	0.2	1.0	2	1	0	1	37		L 15	OEV	2616	
PRENTICE +, MORGAN, 16N, 8W ----- PENNSYLVANIAN		270	1953	30	0.0	0.0	3	0	0	0	30		S 10	ORO	1513	
PYRAMID, WASHINGTON, 2S, 1W ----- DEVONIAN		3109	1962	100	0.0	44.1	6	0	0	1	36		S 6	OEV	3255	
*RACCOON LAKE, MARION, 1N, 1E -----																
			1949	380	9.5	3416.5	47	0	1	13			D	SIL	3530	
	CYPRESS, MIS	1625	1949	240			18	0	1		34		S 10	O		
	BENOIST, MIS	1715	1957	20			2	0	0		37		S 15	OL		
	OHARA, MIS	1885	1949	190			1	0	0				L 5	OC		
	SPAR MTN, MIS	1930	1949	#			11	0	0		36		S 12	OC		
	MCCLOSKY, MIS	1950	1949	#			13	0	0		36		L 10	OC		
	OEVSIL	3330	1951	270			15	0	0		40		O 10	R		
*RALEIGH, SALINE, 7-8S, 6E -----																
			1953	630	5.0	2247.9	55	1	1	12			A	MIS	3249	
	TAR SPRINGS, MIS	2235	1954	20			2	0	0		35		S 20	A		
	CYPRESS, MIS	2550	1953	450			39	0	0		34		S 12	A		
	PAINT CREEK, MIS	2738	1958	10			1	0	0		34		S 5	A		
	AUX VASES, MIS	2905	1953	100			11	1	1		38		S 5	A		
	OHARA, MIS	3054	1959	50			1	0	0				L 3	A		
	SPAR MTN, MIS	3025	1957	#			2	0	0		38		L 10	A		
	MCCLOSKY, MIS	3045	1974	#			1	0	0				OL 4			
*RALEIGH S +, SALINE, 8S, 5-6E -----																
			1955	390	20.3	1197.2	34	0	0	11			S 10	MIS	3455	
	WALTERSBURG, MIS	2046	1959	60			4	0	0		39		S 8			
	BETHEL, MIS	2739	1958	10			1	0	0		37		S 16			
	AUX VASES, MIS	2860	1955	310			31	0	0		40		S 13			
	MCCLOSKY, MIS	2960	1974	10			1	0	0				OL 13			
RAYMOND, MONTGOMERY, 10N, 4-5W ----- POTTSVILLE, PEN		590	1940	60	0.7	30.7	10	0	0	3	35	0.22	S 10	ML	OEV 2049	
*RAYMOND E, MONTGOMERY, 10N, 4W ----- PENNSYLVANIAN		595	1951	60	0.4	31.5	5	0	0	2	34		S 10	MIS	1008	
RAYMOND S, MONTGOMERY, 10N, 4W ----- UNNAMED, PEN		603	1959	10 ABO 1959	0.0	0.0	1	0	0	0	34		S 6	PEN	680	
*RESERVOIR, JEFFERSON, 1S, 3E -----																
			1950	330	8.2	589.7	20	0	0	10			MC	MIS	3211	
	SPAR MTN, MIS	2443	1959	320			2	0	0				S 7	M		
	MCCLOSKY, MIS	2700	1950	#			18	0	0		37		L 6	MC		
	SALEM, MIS	3034	1961	10			1	0	0		39		L 12	M		
*RICHVIEW, WASHINGTON, 2S, 1W ----- CYPRESS, MIS		1500	1946	750	63.1	2910.9	82	0	1	63	39		S 12	AL	MIS 3291	
RIOGWAY, GALLATIN, 8S, 8E -----																
			1946	20	0.0	0.1	2	0	0	0			MC	MIS	2938	
	PALESTINE, MIS	1730	1955	10			1	0	0		30		S 18	ML		
	MCCLOSKY, MIS	2840	1946	10			1	0	0		38		L 6	MC		
					ABO 1946, REV 1955, ABO 1956											
RIFFLE, CLAY, 4N, 6E ----- SPAR MTN, MIS		2735	1948	80 ABO 1961	0.0	80.9	5	0	0	0	36		L 7	MC	MIS 2848	

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
RINARO, WAYNE, 2N, 7E																
	MCCLOSKEY, MIS	3145	1937	10	0,0	7,0	1	0	0	0	39	L	5	AC	MIS	3280
				ABO 1942												
RINARO N, WAYNE, 2N, 7E																
	OHARA, MIS	3132	1952	300	4,2	365,2	22	0	3	7			M	MIS	3950	
	SPAR MTN, MIS	3135	1977	290			1	1	0			L	6			
	MCCLOSKEY, MIS	3140	1952	#			1	0	0			L	6	MC		
	SALEM, MIS	3561	1976	10			20	0	3	39		L	5	MC		
							1	0	0			L	25			
RINARO S, WAYNE, 1N, 6E																
	SPAR MTN, MIS	3268	1965	10	0,0	0,8	1	0	0	0	39	L	4		MIS	3347
				ABO 1966												
RITTER, RICHLAND, 3N, 10-11E																
	STE, GEN, MIS	3215	1950	110	0,4	263,4	6	0	0	1	38	L	5		MIS	3925
				ABO 1960, REV 1961												
*RITTER N, RICHLAND, 3N, 11E																
	OHARA, MIS	3203	1951	180	0,0	161,3	11	0	0	0					MIS	3288
	SPAR MTN, MIS	3215	1960	180			1	0	0		39	L	6			
	MCCLOSKEY, MIS	3205	1952	#			8	0	0			L	6			
			1951	#			3	0	0			L	5			
				ABO 1967												
RIVERTON S, SANGAMON, 15N, 4W																
	SILURIAN	1590	1965	40	1,3	90,5	3	0	0	3	38	O	8		SIL	1670
ROACHES, JEFFERSON, 2S, 1E																
	BENOIST, MIS	2000	1938	180	0,0	620,2	13	0	0	1				A	DEV	3840
	OHARA, MIS	2170	1942	170			3	0	0		38	S	x	AL		
	SPAR MTN, MIS	2190	1938	#			3	0	0		37	0,22	L	5	AC	
	MCCLOSKEY, MIS	2250	1938	#			8	0	0		37	0,22	L	12	AC	
							6	0	0		37	0,22	L	4	AC	
*ROACHES N, JEFFERSON, 2S, 1E																
	BENOIST, MIS	1925	1944	420	3,6	1121,9	35	0	0	2				A	TRN	4996
	SPAR MTN, MIS	2115	1944	420			32	0	0		37	S	7	A		
	TRENTON	4852	1962	60			4	0	0		34	L	8	AC		
				10			1	0	0		42	L	44			
ROBY, SANGAMON, 15N, 3W																
	SILURIAN	1775	1949	370	12,3	378,4	25	0	0	14	38	L	5	MU	SIL	1905
				ABO 1951, REV 1954												
ROBY E, CHRISTIAN, SANGAMON, 15N, 2-3W																
	DEVONIAN	1757	1970	1220	98,0	1076,0	84	0	1	55					SIL	1923
	SILURIAN	1840	1970	10			1	0	0			S	2			
				1220			84	0	1			L	20			
ROBY N, SANGAMON, 16N, 3W																
	SILURIAN	1699	1962	50	0,0	19,0	4	0	0	0	38	L	4		TRN	2300
				ABO 1964, REV 1971, ABO 1973												
ROBY W, SANGAMON, 15N, 3W																
	HIBBARD, DEV	1655	1957	40	0,3	5,9	4	1	0	3	37	S	5	MU	TRN	2259
				ABO 1963, REV 1967												
*ROCHESTER ++, WABASH, 2S, 13W																
	PENNSYLVANIAN	1300	1948	390	5,4	2550,7	52	1	0	20				M	MIS	3375
	WATERSBURG, MIS	1940	1948	230			23	0	0		32	S	16	MCF		
	SALEM, MIS	3210	1977	220			29	0	0			S	20	ML		
				10			1	1	0			L	30			
*ROLAND C +, WHITE, GALLATIN, 5-7S, 8-9E																
	PENNSYLVANIAN	1410	1939	11160	436,2	57671,9	976	1	2	335				A	DEV	5266
	DEGONIA, MIS	2065	1954	30			6	0	0		36	S	10	A		
	CLORE, MIS	1993	1947	40			4	0	0		35	S	7	A		
	PALESTINE, MIS	2085	1946	90			6	0	0		36	S	4			
	WALTERSBURG, MIS	2200	1946	40			4	0	0		34	S	2	A		
	TAR SPRINGS, MIS	2300	1940	1870			121	0	0		31	0,25	S	15	AL	
				720			49	0	0		35	S	15	AL		

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
*ROLAND C +, WHITE, GALLATIN, 5-7S, 8-9E																
MARIONSBURG, MIS	2550	1940		1910			153	0	0		37	0.30	S	20	AL	
GOLCONDA, MIS	2505	1955		10			1	0	0		35		S	5	A	
CYPRESS, MIS	2700	1943		2480			159	1	0		36	0.12	S	15	AL	
PAINT CREEK, MIS	2800	1945		2290			38	0	0		37		S	12	AL	
BETHMEL, MIS	2800			#			87	0	1		37	0.20	S	12	AL	
AUX VASES, MIS	2880	1945		4360			270	1	2		39	0.12	S	13	AL	
OHARA, MIS	3020	1943		2510			28	0	0		36		OL	6	AC	
SPAR MTN, MIS	3050	1945		#			31	0	0		38		L	6	AC	
MCCLOSKY, MIS	3070	1939		#			107	1	0		38	0.20	L	6	AC	
ST. LOUIS, MIS	0			50			5	0	0		37		L	X	AC	
SALEM, MIS	4089	1966		30			3	0	0		38		L	19		
ULLIN	4050	1967		20			2	0	0		38		L	4		
ROLAND W, SALINE, 7S, 7E																
AUX VASES, MIS	2935	1950		10	0.0	22.3	1	0	0		0	40	S	15	HL	MIS 3161
				ABO 1959												
ROSE HILL, JASPER, 8N, 9E																
MCCLOSKY, MIS	2695	1966		10	0.0	7.3	1	0	0		0	39	L	10		MIS 3052
				ABO 1976												
*RUARK, LAWRENCE, 2N, 12-13W																
		1941		480	10.2	2638.1	54	0	1		19				A	MIS 2442
PENNSYLVANIAN	1600	1941		380			42	0	1		33		S	10	AL	
BETHMEL, MIS	2075			90			8	0	0		36		S	11	AL	
AUX VASES, MIS	2145			30			3	0	0		37		S	7	AL	
OHARA, MIS	2275	1954		10			1	0	0		37		L	5	AC	
*RUARK W C, LAWRENCE, 2N, 13W																
		1947		730	11.4	1495.9	65	0	0		29				M	MIS 3112
WALTERSBURG, MIS	1780	1947		50			7	0	0		38		S	10	ML	
CYPRESS, MIS	2165	1952		10			1	0	0		35		S	9	ML	
BETHMEL, MIS	2220	1948		580			45	0	0		36		S	20	ML	
OHARA, MIS	2350	1952		290			4	0	0				L	5	MC	
SPAR MTN, MIS	2390			#			2	0	0				L	5	MC	
MCCLOSKY, MIS	2400	1950		#			18	0	0		38		L	3	MC	
*RURAL HILL N, HAMILTON, 5S, 5E																
		1949		140	10.2	226.3	11	2	0		3				M	MIS 4454
CYPRESS, MIS	2930	1956		110			8	0	0		35		S	10	ML	
OHARA, MIS	3330	1977		20			1	1	0				L	6		
SPAR MTN, MIS	3325	1949		#			1	0	0		37		L	8	MC	
ST LOUIS, MIS	3640	1977		10			1	1	0				L	7		
SALEM, MIS	3860	1976		20			1	0	0				L	35		
ULLIN, MIS	4220	1977		20			2	2	0				L	7		
				ABO 1950, REV 1956, ABO 1969, REV 1976												
RUSHVILLE, SCHUYLER, 2N, 1W																
DEV-SIL	743	1966		10	0.0	0.0	1	0	0		0	37	L	22	7RN	975
				ABO 1969												
RUSHVILLE NW, SCHUYLER, 2N, 2W																
SILURIAN	669	1960		30	0.0	0.5	3	0	0		0	36	L	3	AC	7RN 1038
				ABO 1976												
RUSSELLVILLE GAS +, LAWRENCE, 4-5N, 10-11W																
MCCLOSKY, MIS	1560	1937		20	0.0	12.4	3	1	0		1	35	L	7	AC	DEV 3133
				ABO 1958, REV 1977												
RUSSELLVILLE W, LAWRENCE, 4N, 11W																
SPAR MTN, MIS	1565	1955		10	0.0	2.0	1	0	0		0	37	L	22		MIS 1646
				ABO 1957												
*ST. FRANCISVILLE, LAWRENCE, 2N, 11W																
BETHMEL, MIS	1845	1900		950	X	X	89	0	4		32	32	S	6	ML	MIS 2465
				SEE LAWRENCE COUNTY DIVISION FOR PRODUCTION												
*ST. FRANCISVILLE E, LAWRENCE, 2N, 11W																
		1941		450	1.6	725.0	39	0	0		17				A	MIS 1960
PENNSYLVANIAN	1260	1954		60			6	0	0		30		S	8	AL	
WALTERSBURG, MIS	1300			10			1	0	0		37		S	6	AL	
MARIONSBURG, MIS	1460	1950		40			3	0	0		35		S	6	AL	
CYPRESS, MIS	1605			60			3	0	0		36		S	15	AL	
BETHMEL, MIS	1750	1941		320			25	0	0		40	0.21	S	20	A	
SPAR MTN, MIS	1822	1963		10			1	0	0		36		L	5		

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery—see Part II, p. 73-144)	Pay zone		Year of discovery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Completed to end of 1977	Completed in 1977	Abandoned 1977	Producing end of year	Gr. fur °API	Sulfur (%)	Kind of rock, avg. thickness in feet, structure		Zone	Depth (ft)
*ST. JACOB, MADISON, 3N, 6W																
-----	TRENTON, ORD	2260	1942	1050	29.9	4124.5	55	0	0	28	40	0.23	L	17	A	PC 5019
ST. JACOB E, MADISON, 3N, 6W																
-----	HARDIN, OEV	1840	1955	10	0.0	1.1	1	0	0	0	23		S	X	U	ORD 2600
				ABO 1957												
*ST. JAMES, FAYETTE, 5-6N, 2-3E																
-----			1938	2280	143.7	20533.9	263	0	0	140					A	OEV 3470
	GOLCONOA, MIS	1555		10			1	0	0		34		L	15	A	
	CYPRESS, MIS	1580	1938	1900			200	0	0		37	0.31	S	16	A	
	BENOIST, MIS	1746	1959	10			1	0	0		36		S	8	A	
	SPAR MTN, MIS	1860	1954	100			10	0	0		38		L	16	A	
	CARPER, MIS	3070	1961	670			52	0	0		37		S	35	A	
ST. PAUL, FAYETTE, 5N, 3E																
-----			1941	380	7.3	1030.3	36	0	0	19					A	OEV 3575
	BENOIST, MIS	1900	1941	240			18	0	0		34	0.23	S	9	A	
	SPAR MTN, MIS	2030		10			1	0	0		38		L	6	A	
	CARPER, MIS	3288	1963	290			19	0	0		36		S	28		
*STE. MARIE, JASPER, 5N, 10-11E, 14W																
-----	STE. GEN, MIS	2900	1941	1210	13.6	2069.0	72	0	0	11	37	0.14	L	8	AC	MIS 3470
STE. MARIE E, JASPER, 6N, 14W																
-----	ST. GEN, MIS	2685	1949	70	2.0	32.3	8	0	0	1	38		L	10	MC	MIS 3191
				ARO 1951, REV 1966												
STE. MARIE W, JASPER, 5-6N, 10E																
-----			1949	410	5.5	455.4	21	1	0	14					M	MIS 3225
	AUX VASES, MIS	2720	1949	10			1	0	0		37		S	25	HL	
	STE GEN, MIS	2815	1949	410			21	1	0		40		L	6	MC	
*SAILOR SPRINGS C, CLAY, EFFINGHAM, JASPER, 3-6N, 6-8E																
-----			1938	19290	576.2	57935.9	1471	15	34	621					A	OEV 4486
	TAR SPRINGS, MIS	2340	1941	810			58	0	1		37	0.17	S	12	A	
	GLEN OGAN, MIS	2390	1943	10			1	0	0		38		L	8	A	
	JACKSON, MIS	2550	1976	10			1	0	1				S	10		
	CYPRESS, MIS	2550	1942	9920			730	8	13		38	0.28	S	12	A	
	BETHEL, MIS	2740	1946	710			42	3	0		37		S	20	A	
	AUX VASES, MIS	2825	1942	2590			186	5	5		37		S	13	A	
	OHARA, MIS	2900	1947	8040			17	0	0		37		OL	6	A	
	SPAR MTN, MIS	2900	1945	#			193	3	8		33		LS	8	A	
	MCCLOSKEY, MIS	2925	1938	#			339	2	7		40		OL	8	A	
	ST LOUIS, MIS	3310	1967	70			8	2	0		39		L	11	A	
SAILOR SPRINGS E, CLAY, 4N, 8E																
-----			1944	180	0.5	82.9	15	0	0	1					0	MIS 3614
	CYPRESS, MIS	2695	1944	110			10	0	0		36		S	8	0	
	MCCLOSKEY, MIS	3020	1955	50			5	0	0		37		L	7	0	
	SALEM, MIS	3550	1967	20			1	0	0		38		L	6		
				ARO 1952, REV 1955, ABO 1956, REV 1960, ABO 1961, REV 1966												
SAILOR SPRINGS N, CLAY, 4N, 8E																
-----			1948	80	0.0	4.8	5	0	0	0					M	MIS 3126
	SPAR MTN, MIS	2985	1948	80			3	0	0				L	2	MC	
	MCCLOSKEY, MIS	3030		#			4	0	0		37		L	2	MC	
				ARO 49, REV 50, ABO 51, REV 55, ABO 56, REV 57, ABO 60												
*SALEM C, MARION, JEFFERSON, 1-2N, 13, 1-2E																
-----			1938	13640	2582.9	365989.5	2867	3	15	1284					A	PC 9210
	BENOIST, MIS	1780	1938	10830			623	0	2		37		S	40	A	
	AUX VASES, MIS	1825		7590			822	0	0		37	0.21	S	40	A	
	OHARA, MIS	2075		9550			2	0	0		37		L	3	A	
	SPAR MTN, MIS	2100		#			151	0	7		37		LS	15	A	
	MCCLOSKEY, MIS	2050		#			892	0	4		35		L	17	A	
	ST. LOUIS, MIS	2100		210			19	1	0		37		L	X	A	
	SALEM, MIS	2160	1939	1400			279	2	0		37		L	17	A	
	DEVONIAN	3440	1939	6000			661	3	1		42	0.28	L	40	A	
	TRENTON, ORD	4500	1941	1920			151	0	3		37		L	50	A	
SAMSVILLE, EDWARDS, 1N, 11E																
-----	WALTERSBURG, MIS	2420	1942	70	0.0	1.0	5	0	2	0	38		S	7	A	MIS 3303
				ARO 1952, REV 1974, ABO 1977												

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*SAMSVILLE N, EDWARDS, 1N, 14W																
BETMEL, MIS		2900	1945	200	0.0	259.2	16	0	0	0	38	S	6 A	MIS	4040	
				ABO 1976												
SAMSVILLE NW, EDWARDS, 1N, 10E																
OMARA, MIS		3190	1955	20	0.0	4.2	2	0	0	0	38	L	4	MIS	3349	
SPAR MTN, MISS		3301	1970	10			1	0	0			L	10			
				ABO 1956, REV 1970, ABO 1972												
SAMSVILLE W, EDWARDS, 1N, 10E																
OMARA, MIS		3260	1951	220	17.0	198.4	15	8	0	11	40	L	6	MIS	4200	
SPAR MTN, MIS		3275		190			3	0	0			L	6			
MCCLOSKY, MIS		3275		#			2	0	0		38	L	6			
SALEM, MIS		3850	1976	40			9	6	0			L	6			
ULLIN, MIS		4170	1977	10			3	2	0			L	85			
				10			1	1	0			L	28			
SANDOVAL, MARION, 2N, 1E																
CYPRESS, MIS		1400	1909	500	48.4	6222.3	154	0	0	10	37	S	10	STP	5023	
BENOIST, MIS		1540	1909	20			1	0	0		35	S	20			
GENEVA, DEV		2920		480			124	0	0		38	0.38	0	9 R		
				240			28	0	0							
				REV 1975												
SANDOVAL W, CLINTON, 2N, 1W																
CYPRESS, MIS		1420	1946	10	0.0	26.3	1	0	0	0	37	S	4 A	MIS	1604	
				ABO 1960												
SANTA FE, CLINTON, 1N, 3W																
CYPRESS, MIS		955	1944	10	0.0	1.5	1	0	0	0	34	S	10 A	DEV	2542	
				ABO 1947												
*SCHNELL, RICHLAND, 2N, 9E																
AUX VASES, MIS		2956	1969	160	12.5	353.7	14	3	0	8		S	10	MIS	3690	
SPAR MTN, MIS		3090	1974	100			7	3	0			S	15			
MCCLOSKY, MIS		3000	1938	10			1	0	0		39	0.19	OL	5 AC		
				80			7	0	0							
SCHNELL E, RICHLAND, 2N, 9E																
MCCLOSKY, MIS		3115	1954	10	0.0	0.3	1	0	0	0	38	L	4 AC	MIS	3313	
				ABO 1954												
SCIOTA, MCCOY, 7N, 3W																
DEVONIAN		519	1960	10	0.0	0.0	1	0	0	0	28	L	16	SIL	760	
				ABO 1960												
*SEMINARY, RICHLAND, 2N, 10E																
MCCLOSKY, MIS		3195	1945	120	0.0	228.4	8	0	0	0	38	L	MC	MIS	3475	
				ABO 1966												
*SESSER C, FRANKLIN, 5-6S, 1-2E																
CYPRESS, MIS		2455	1942	1640	70.0	3500.9	107	1	0	65	38	S	5 A	DEV	4688	
RENAULT, MIS		2690	1953	50			3	0	0		37	0.17	S	10 AC		
AUX VASES, MIS		2700	1942	340			26	0	0		38	0.17	S	10 AL		
OMARA, MIS		2675	1951	1230			72	0	0				L	8 A		
SPAR MTN, MIS		2810	1944	110			2	0	0				L	10 AC		
MCCLOSKY, MIS		2840		#			5	0	0		39		L	5 AC		
ST. LOUIS, MIS		3002	1957	10			1	0	0		37		L	20 AC		
CLEAR CREEK, DEV		4360	1949	130			8	1	0		40		L	X AC		
SHARPSBURG, CHRISTIAN, 14N, 2W																
DEVONIAN		1972	1975	20	1.7	4.6	2	0	0	2		L	3	SIL	2062	
SILURIAN		1990	1974	10			1	0	0			L	3			
				10			1	0	0							
*SMATTUC, CLINTON, 2N, 1W																
CYPRESS, MIS		1280	1945	280	9.0	792.1	36	0	0	16	36	S	7 A	ORO	4078	
BENOIST, MIS		1420	1947	150			15	0	0		35	S	13 AL			
TRENTON, ORO		4020	1948	80			7	0	0		40	L	13 A			
				180			15	0	0							



TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
SHATTUC N, CLINTON, 2N, 1W																
-----																
	BENOIST, MIS	1445	1961	10	0.0	2.4	1	0	0	0	36		S	7	TRN	4134
				A80	1964											
SHAWNEETOWN, GALLATIN, 9S, 9E																
-----																
			1945	80	0.0	16.9	6	0	0	0				M	MIS	2837
	PALESTINE, MIS	1720	1955	40			2	0	0		35		S	28	M	
	WALTERSBURG, MIS	1900	1955	10			1	0	0		37		S	12	M	
	TAR SPRINGS, MIS	1960	1955	60			3	0	0		37		S	X	M	
	CYPRESS, MIS	2375	1956	10			1	0	0		38		S	14	M	
	BETHEL, MIS	2400	1968	10			1	0	0				S	X		
	AUX VASES, MIS	2650	1945	10			1	0	0		38		S	10	MF	
				A80	1950, REV 1955, A80 1960, REV 1968, A80 1969											
SHAWNEETOWN E, GALLATIN, 9S, 10E																
-----																
			1952	30	0.0	18.3	4	0	0	2					MIS	2830
	WALTERSBURG, MIS	1855	1955	10			2	0	0		37		S	10		
	BETHEL, MIS	2480	1955	10			1	0	0		37		S	X		
	AUX VASES, MIS	2660	1952	10			1	0	0		38		S	9		
*SHAWNEETOWN N, GALLATIN, 9S, 10E																
-----																
			1948	50	0.0	104.9	4	0	0	0				MF	MIS	3131
	AUX VASES, MIS	2750	1955	40			3	0	0		38		S	20	MF	
	MCCLOSKEY, MIS	3045	1948	10			1	0	0		36		L	6	MF	
				A80	1953, REV 1955, A80 1966											
*SHELBYVILLE C, SHELBY, 11N, 4E																
-----																
	AUX VASES, MIS	1860	1946	110	1.2	44.7	9	0	0	1	34		S	15	A	MIS 3301
SHUMWAY, EFFINGHAM, 9N, 5E																
-----																
	MCCLOSKEY, MIS	2223	1965	10	0.0	3.4	1	0	0	0	37		L	3	MIS	2273
				A80	1969											
SICILY, CHRISTIAN, 13N, 4W																
-----																
	SILURIAN	1860	1956	70	0.0	69.4	6	0	0	0	39		L	16	SIL	1884
				A80	1967											
*SIGGINS, CUMBERLAND, CLARK, 10-11N, 10-11E, 14W																
-----																
			1906	4430	X	X	1125	1	1	446				0	TRN	3341
	1ST(UP)SIGGINS,PEN	400		4430			896	1	1		36		S	25	0	
	2ND(LO)SIGGINS,PEN	460		#			95	0	0		36		S	X	0	
	3RD,4THSIGGINS,PEN	580		#			209	0	0		37		S	40	0	
	TRENTON, ORD	3013	1972	10			1	0	0		40		L	67		
				SEE CLARK COUNTY DIVISION FOR PRODUCTION												
SILOAM, BROWN, 2S, 4W																
-----																
	SILURIAN	603	1959	280	2.5	239.0	26	0	0	12	37		0	4	AC	STP 1115
*SORENTO C, BOND, 6N, 4W																
-----																
			1938	700	2.9	1929.6	58	0	0	5				A	TRN	2684
	PENNSYLVANIAN	570	1956	80			6	0	0		31		S	20	A	
	LINGLE, DEV	1875	1938	640			52	0	0		35		S	8	A	
SORENTO W, BOND, 6N, 4W																
-----																
	DEVONIAN	1880	1956	10	0.0	0.0	1	0	0	0	37		L	X	ORD	2706
				A80	1956											
SPARTA +, RANDOLPH, 4-5S, 5-6W																
-----																
	CYPRESS, MIS	850	1888	20	0.0	X	2	0	0	0	35		S	7	0	TRN 3130
				A80	1900											
SPARTA S, RANDOLPH, 5S, 5W																
-----																
	CYPRESS, MIS	880	1949	10	0.0	0.0	1	0	0	0	35		S	8	A	MIS 909
				A80	1950											
SPRINGERTON S, WHITE, 4S, 8E																
-----																
			1976	400	129.7	134.6	31	30	0	31					MIS	4500
	AUX VASES, MIS	3325	1977	350			27	27	0				S	8		
	SPAR MTN, MIS	3440	1976	30			2	1	0				S	9		
	SALEM, MIS	4290	1977	10			1	1	0				L	5		
	ULLIN, MIS	4385	1977	10			1	1	0				L	6		

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County Location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- pleted in 1977	Aban- doned 1977	Pro- ducting end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
SPRINGFIELD E, SANGAMON, 15N, 4W																
		1960	230	2.3	323.5	22	0	1	5				R	SIL	1705	
	MIBBARD, DEV	1625 1960	10			1	0	0		37		S	4 O			
	SILURIAN	1600 1960	220			22	0	1		39		0	12 R			
SPRING GARDEN, JEFFERSON, 4S, 3E																
	MCCLOSKEY, MIS	3090 1977	10	2.5	2.5	1	1	0	1			OL	10	MIS	3942	
*STAUNTON +, MACOUPIN, 7N, 7W																
	PENNSYLVANIAN	515 1952	30	0.0	4.1	2	0	0	1	35		S	11 A	ORO	2371	
*STAUNTON W, MACOUPIN, 7N, 7W																
	PENNSYLVANIAN	505 1954	260	4.6	113.5	27	1	0	16	35		S	10	SIL	1512	
*STEWARSON, SHELBY, 10N, 5E																
		1939	330	19.0	916.5	28	0	0	23					DEV	3414	
	AUX VASES, MIS	1945 1939	330			27	0	0		38	0.18	S	9 A			
	SPAR MTN, MIS	2021 1958	70			5	0	0		37		S	4 A			
STEWARSON E, SHELBY, 9-10N, 6E																
		1963	30	0.9	13.8	3	0	0	2					MIS	2280	
	AUX VASES, MIS	2177 1963	10			1	0	0		38		S	6			
	SPAR MTN, MIS	2197 1963	30			3	0	0		37		S	6			
STEWARSON W, SHELBY, 10N-5E																
	BENOIST, MIS	1920 1970	10	0.0	0.0	1	0	0	0			S	5	MIS	2102	
			ABO 1971													
STIRITZ, WILLIAMSON, 8S, 2E																
			110	10.3	160.9	7	0	2	5					MIS	2756	
	BETHEL, MIS	2470 1976	40			2	0	1				S	4			
	AUX VASES, MIS	2525 1971	70			5	0	1				S	6			
*STORMS C +, WHITE, 5-6S, 9-10E																
		1939	4680	253.6	20633.7	436	1	0	175					AM	DEV	5174
	PENNSYLVANIAN	1320 1954	340			10	1	0		29		S	10 A			
	BIEHL, PEN	1840 1951	#			16	0	0		35		S	4 AF			
	DEGONIA, MIS	2090 1954	180			13	0	0		35		S	7 AL			
	CLORE, MIS	2100 1954	250			30	0	0		35		S	10 AL			
	PALESTINE, MIS	2150 1941	70			6	0	0		35		S	12 AL			
	WALTERSBURG, MIS	2230 1939	2690			246	0	0		32	0.28	S	15 AL			
	TAR SPRINGS, MIS	2340 1946	300			23	0	0		37		S	10 MF			
	HARDINSBURG, MIS	2476 1959	20			2	0	0		37		S	9 MF			
	CYPRESS, MIS	2700 1946	330			22	0	0		34		S	10 MF			
	BETHEL, MIS	2810	40			4	0	0		37		S	X MF			
	RENAULT, MIS	2990	20			2	0	0		39		L	5 A			
	AUX VASES, MIS	3000 1946	1020			76	0	0		35		S	13 AF			
	OMARA, MIS	3095	290			9	0	0		35		L	10 AC			
	SPAR MTN, MIS	3115 1950	#			9	0	0		34		L	2 AC			
	MCCLOSKEY, MIS	3055	#			8	0	0				L	5 MC			
	SALEM, MIS	3738 1966	10			1	0	0				L	6			
*STRINGTOWN, RICHLAND, 4-5N, 11E, 14W																
	STE, GEN, MIS	3025 1941	550	0.0	1603.6	37	0	0	0	40	0.24	OL	A AC	MIS	3651	
			ABO 1975													
STRINGTOWN E, RICHLAND, 4N, 14W																
	MCCLOSKEY, MIS	3010 1948	10	0.0	2.0	1	0	0	0	37		L	4	MIS	3175	
			ABO 1950													
STRINGTOWN S, RICHLAND, 4N-14W																
	SPAR MTN, MIS	3117 1970	30	0.0	0.2	3	0	0	0			S	8	MIS	3186	
			ABO 1976													
STUBBLEFIELD S +, BOND, 4N, 34																
		1955	80	9.2	12.8	7	1	0	5					DEV	2455	
	PENNSYLVANIAN	540 1974	40			3	0	0				S	15			
	CYPRESS, MIS	985 1955	10			1	0	0		35		S	4			
	DEVONIAN	2185 1963	30			3	1	0		37		L	8			
						ABO 1956, REV 1963, ABO 1965, REV 1974										

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery—see Part II, p. 73-144)	Pay zone		Year of discovery	Area proved in acres	Oil production (M bbl)		Number of wells			Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Completed to end of 1977	Completed in 1977	Abandoned 1977	Producing end of year	Gr. Sulfur %API (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
SUMNER, LAWRENCE, 4N, 13W															
MCCLOSKEY, MIS	2260	1944	20	0.0	15.7	2	0	0	0	39	L	4 MC	MIS	2365	
			ABO 1953												
SUMNER CEN, LAWRENCE, 4N, 13W															
SPAR MTN, MIS	2544	1966	10	0.0	0.0	1	0	0	0	37	L	5	MIS	3100	
			ABO 1968												
SUMNER S +, LAWRENCE, 3N, 13W															
AUX VASES, MIS	2620	1964	60	0.0	0.0	4	0	0	0	36	S	8	MIS	2990	
			ABO 1969												
SUMPTER, WHITE, 4S, 9E															
OEGONIA, MIS	2140	1945	360	16.7	398.9	25	0	0	13			A	ORD	7852	
CLORE, MIS	2195	1975	10			1	0	0			S	5			
TAR SPRINGS, MIS	2575	1945	280			19	0	0		37	S	18 AF			
HARDINSBURG, MIS	2655	1951	10			1	0	0		36	S	14 AF			
CYPRESS, MIS	2860	1948	70			5	0	0		37	S	15 AF			
OHARA, MIS	3222	1960	10			1	0	0		36	L	6 A			
*SUMPTER E, WHITE, 4-5S, 10E															
CYPRESS, MIS	2795	1951	1610	46.1	2711.4	98	0	2	37			A	MIS	3396	
BETHEL, MIS	2922	1960	20			18	0	0		37	S	16 AL			
AUX VASES, MIS	3020	1952	420			2	0	0		35	S	12 A			
OHARA, MIS	3115	1951	1110			27	0	2		39	S	15 AL			
SPAR MTN, MIS	3140	1952	#			44	0	0		36	L	12 AC			
MCCLOSKEY, MIS	3150		#			18	0	0		36	L	4 AC			
						3	0	0		33	L	5 AC			
*SUMPTER N, WHITE, 4S, 9E															
AUX VASES, MIS	3185	1952	280	14.3	665.9	20	0	1	9				OEV	5500	
MCCLOSKEY, MIS	3312	1974	10			16	0	0		37	S	3 NL			
ULLIN, MIS	4230	1975	30			1	0	0			OL	4			
						3	0	1			L	30			
*SUMPTER S, WHITE, 4-5S, 9E															
TAR SPRINGS, MIS	2580	1948	250	24.1	886.6	29	0	0	8			AF	MIS	3430	
BETHEL, MIS	3025	1948	120			13	0	0		34	S	8 AF			
AUX VASES, MIS	3260		10			1	0	0		35	S	15 AF			
			210			16	0	0		37	S	10 AF			
SUMPTER W, WHITE, 4S, 9E															
AUX VASES, MIS	3165	1952	20	1.4	24.3	2	0	0	1	37	S	5 NL	MIS	3336	
			ABO 1964		REV 1969										
TAMAROA, PERRY, 4S, 1W															
CYPRESS, MIS	1120	1942	340	6.1	439.8	22	0	1	9				TRN	4287	
TRENTON, ORD	4135	1942	230			17	0	1		30	0.12 S	13 AL			
		1964	110			6	0	0		38	L	40			
*TAMAROA S, PERRY, 4S, 1W															
CYPRESS, MIS	1155	1957	250	6.6	314.1	20	0	0	12	28	S	7	MIS	1385	
TAMAROA W, PERRY, 4S, 2W															
CYPRESS, MIS	1100	1956	20	0.0	2.5	3	0	0	1	34	S	5	OEV	2902	
TAYLOR HILL, FRANKLIN, 5S, 4E															
OHARA, MIS	3055	1949	60	10.0	91.9	7	2	0	2				MIS	4093	
ULLIN, MIS	3940	1949	40			3	0	0		37	L	4			
		1961	50			4	2	0		38	L	15			
			ABO 1968, REV 1977												
TEUTOPOLIS, EFFINGHAM, 8N, 6E															
SPAR MTN, MISS	2402	1966	170	2.2	131.0	11	1	0	10				MIS	2845	
MCCLOSKEY, MIS	2530	1966	160			11	1	0			L	5			
ST LOUIS, MIS	2570	1967	#			1	0	0		38	OL	4			
		1967	40			3	0	0		39	L	4			
TEUTOPOLIS S, EFFINGHAM, 8N, 6E															
		1968	50	0.2	19.2	3	0	0	2				MIS	2950	
(CONTINUED ON NEXT PAGE)															

(CONTINUED ON NEXT PAGE)

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. fur °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
TEUTOPOLIS S, EFFINGHAM, 8N, 6E																
	SPAR MTN, MIS	2477	1968	50			2	0	0				8	4		
	MCCLOSKEY, MIS	2535	1968	#			2	0	0				OL	5		
*THACKERAY, HAMILTON, 5S, 7E																
			1944	830	18.3	4355.8	74	0	0	29					A	DEV 5611
	CYPRESS, MIS	3030		20			2	0	0		36		S	24	A	
	AUX VASES, MIS	3360	1944	760			67	0	0		37		S	15	AL	
	OHARA, MIS	3435	1946	120			1	0	0				L	5	AC	
	MCCLOSKEY, MIS	3500	1946	#			6	0	0		37		L	10	AC	
THOMPSONVILLE, FRANKLIN, 7S, 4E																
			1940	380	5.5	387.6	37	0	0	12						DEV 5400
	OHARA, MIS	3110	1967	310			7	0	0				L	4		
	SPAR MTN, MIS	3190	1967	#			1	0	0				LS	4		
	MCCLOSKEY, MIS	3200	1940	#			19	0	0		38	0.16	L	10	A	
	ST LOUIS, MIS	3450	1967	80			10	0	0		39		L	10		
					ABO 1947, REV 1967											
*THOMPSONVILLE E, FRANKLIN, 7S, 4E																
	AUX VASES, MIS	3150	1949	180	6.0	612.5	14	0	0	1	38		S	8	ML	MIS 3371
*THOMPSONVILLE N, FRANKLIN, 7S, 4E																
			1944	870	22.8	3757.7	87	0	0	15					A	MIS 3498
	CYPRESS, MIS	2750	1948	20			1	0	0		37		S	10	AL	
	AUX VASES, MIS	3100	1944	860			86	0	0		35		S	20	AL	
TILOEN, RANDOLPH, 4S, 5W																
	SILURIAN	2160	1952	610	47.5	4425.8	35	0	0	30	40		L	60	R	ORO 3093
TILOEN N, ST CLAIR, WASHINGTON, RANDOLPH, 3-4S, 5-6W																
	SILURIAN	2014	1968	400	39.1	781.4	25	6	0	25	42		L	70	R	ORO 2810
TOLIVER E, CLAY, 5N, 6-7E																
			1943	160	10.4	242.1	11	3	0	5					M	MIS 3203
	CYPRESS, MIS	2510	1955	10			1	0	0		36		S	14	M	
	AUX VASES, MIS	2740	1967	20			2	0	0		36		S	4		
	SPAR MTN, MIS	2815		110			4	2	0		36		L	6	MC	
	MCCLOSKEY, MIS	2840	1943	#			4	1	0		35		OL	8	MC	
TOLIVER S, CLAY, 4N, 6E																
			1953	70	0.0	57.6	4	0	0	0					M	MIS 2915
	AUX VASES, MIS	2765	1953	10		21.0	1	0	0		36		S		MC	
	MCCLOSKEY, MIS	2875	1956	60		37.0	3	0	0		34		L	5	MC	
					ABO 1964											
*TONTI, MARION, 2-3N, 2E																
			1939	570	88.4	13980.0	107	0	1	63					O	ORO 4900
	BENOIST, MIS	1930	1939	140			18	0	0		36		S	20	O	
	AUX VASES, MIS	2005	1939	180			26	0	1		37		S	30	O	
	SPAR MTN, MIS	2125		630			16	0	0				LS	12	O	
	MCCLOSKEY, MIS	2130	1939	#			73	0	0		38	0.21	OL	15	O	
	DEVONIAN	3500		80			7	0	0		37		O	7	R	
TOVEY, CHRISTIAN, 13N, 3W																
	SILURIAN	1850	1955	10	0.0	28.0	1	0	0	0	38		L	10		SIL 1881
					ABO 1973											
*TRUMBULL C, WHITE, 5S, 8-9E																
			1944	1500	71.2	3673.3	113	0	0	56					A	MIS 4285
	PENNSYLVANIAN	830	1974	10			1	0	0				S	12		
	TAR SPRINGS, MIS	2528	1962	30			2	0	0		35		S	5		
	CYPRESS, MIS	2845	1944	420			32	0	0		36		S	10	A	
	BETHEL, MIS	2955	1959	50			2	0	0		37		S	9	A	
	AUX VASES, MIS	3170	1946	520			42	0	0		36		S	9	A	
	OHARA, MIS	3230		660			19	0	0		36		L	15	AC	
	SPAR MTN, MIS	3270	1946	#			13	0	0				L	6	AC	
	MCCLOSKEY, MIS	3290	1947	#			19	0	0				L	5	AC	
*TRUMBULL N, WHITE, 4S, 8E																
			1961	40	0.0	6.9	3	0	0	0						MIS 3537
(CONTINUED ON NEXT PAGE)																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
*TRUMBULL N, WHITE, 4S, 8E																
AUX VASES, MIS	3325 1961		20				1	0	0		36		S	6		
MCCLOSKEY, MIS	3466 1961		20				2	0	0		37		DL	16		
				ABD 1966												
TURKEY BEND, PERRY, 4S, 2W																
TRENTON, DRD	3940 1957		10	1.2	50.9		1	0	0	1	39		L	1	ORD	4044
*VALIER, FRANKLIN, 6S, 2E																
AUX VASES, MIS	1942		110	2.6	104.6		6	0	0	2					MIS	2900
MCCLOSKEY, MIS	2685 1963		100				5	0	0	39			S	7		
	2715 1942		10				1	0	0	39			L	12	ML	
				ABD 1945, REV 1963												
VERGENNES, JACKSON, 7S, 2W																
DEVONIAN	3300 1975		60	2.6	7.3		4	0	0	4	39		L	10	ORD	7094
VIRDEN W, MACDUPIN, 12N, 7W																
DEVONIAN	1361 1963		30	0.0	0.0		2	0	0	0	38		L	20	DEV	1390
				ABD 1971												
WAGGONER +, MONTGOMERY, 11N, 5W																
POTTSVILLE, PEN	610 1940		40	0.0	12.0		7	1	0	1	28	0.21	S	10	SIL	1945
				ABD 1949, REV 59, ABD 60, REV 63, ABD 64, REV 77												
WAKEFIELD, JASPER, 5N, 9E																
SPAR MTN, MIS	3100 1946		40	0.0	1.7		2	0	0	0	38		L	5	MIS	3207
				ABD 1947, REV 1953, ABD 1954												
WAKEFIELD N, JASPER, 5N, 9E																
MCCLOSKEY, MIS	3000 1953		10	0.0	23.2		1	0	0	0	37		L	6	MIS	3204
				ABD 1958												
WAKEFIELD S, RICHLAND, 5N, 9E																
MCCLOSKEY, MIS	3040 1955		80	0.0	7.2		5	0	0	0	37		L	4	MIS	3650
				ABD 1955, REV 1969, ABD 1974												
*WALPOLE, HAMILTON, 6-7S, 6E																
TAR SPRINGS, MIS	1941		2180	35.8	10490.0		133	0	1	58					DEV	5325
AUX VASES, MIS	2465		110				7	0	0		37		S	15	AL	
SPAR MTN, MIS	3070 1941		2060				121	0	0	37	0.13		S	20	A	
MCCLOSKEY, MIS	3195 1954		200				3	0	1				L	7	AC	
ST. LOUIS, MIS	3162 1960		#				10	0	0	37			DL	7	AC	
	3544 1960		10				1	0	0	38			L	8	AC	
WALPOLE S, HAMILTON, 7S, 6E																
AUX VASES, MIS	3120 1951		40	0.0	123.3		2	0	0	0	37		S	6	AL	MIS 3362
				ABD 1975												
WALTONVILLE, JEFFERSON, 3S, 2E																
BENDIST, MIS	1943		60	1.3	134.9		5	0	0	3					MIS	3375
ST. LOUIS, MIS	2460 1943		50				4	0	0	38	0.14		S	9	A	
	2767 1962		10				1	0	0	37			L	14		
*WAMAC, MARION, CLINTON, WASHINGTON, 1N, 1E, 1W																
PETRO, PEN	1921		310	0.0	692.3		119	0	0	1					DRD	4160
DEVONIAN	720 1921		300				117	0	0	36			S	20	DF	
	3015 1959		10				1	0	0	38			L	9	DF	
WAMAC E +, MARION, 1N, 1E																
ISABEL, PEN	845 1952		140	0.3	49.6		11	0	0	4	30		S	15	ML	DEV 3405
				PAY ZONE IS ISABEL (WILSON SAND), PEN												
*WAMAC W, CLINTON, 1N, 1W																
CYPRESS, MIS	1962		260	25.5	960.4		28	1	0	23					DEV	3050
BENDIST, MIS	1312 1962		130				15	1	0	35			S	8		
	1466 1962		130				13	0	0	36			S	12		
WAPELLA E, DEWITT, 21N, 3E																
DEVONIAN	1962		350	99.7	2848.4		36	0	0	36					STP	2216
(CONTINUED ON NEXT PAGE)	1108 1963		30				3	0	0	31			L	5		



TABLE 8. Illinois oil fields statistics, 1977-continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone		Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. fur API	Sul- (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
(CONTINUED FROM PREVIOUS PAGE)																
WAPELLA E, DEWITT, 21N, 3E	SILURIAN	1112	1962	350			36	0	0		31	0	6	R		
WARRENTON-BORTON, EDGAR, COLES, 13-14N, 13-14W	UNNAMEO, PEN	200	1906	470	0.0	32.0	47	0	0	1	31	S	20	ML	TRN	2212
WATERLOO, MONROE, 1-2S, 10W	TRENTON, ORO	410	1920	240	4.4	243.1	46	4	0	7	30	0.97	L	50	A	PC 2768
ABO 1930, REV 1939, CONVERTED IN PART TO GAS STORAGE 1951																
WATSON, EFFINGHAM, 7N, 5-6E	SPAR MTN, MIS	2415	1957	30	0.4	59.4	3	0	0	1					MIS	2647
	MCCLOSKEY, MIS	2434	1958	30			2	0	0			S	5			
				#			1	0	0		38	L	11			
WATSON W, EFFINGHAM, 7N, 5E	AUX VASES, MIS	2208	1965	10	0.5	12.3	1	0	0	1	39	S	12		MIS	2316
WAVERLY +, MORGAN, 13N, 8W	DEV-SIL	1020	1946	20	0.0	0.0	1	0	0	0		L	10	A	ORO	2070
ABO, GAS STORAGE IN ST PETER AND GALESVILLE																
WEAVER, CLARK, 11N, 10W	COLE, MIS	1565	1949	530	18.3	2372.8	42	0	0	24	30	S	5	R	DEV	2160
	DEVONIAN	2030	1949	30			1	0	0				5	U		
				500			40	0	0		37	L	10	R		
WEST FRANKFORT C, FRANKLIN, 7S, 2-3E	TAR SPRINGS, MIS	2060	1941	1700	73.9	7348.8	151	2	0	58	39	0.13	S	20	A	DEV 4869
	AUX VASES, MIS	2710	1947	420			70	0	0				S	20	A	
	OHARA, MIS	2760	1943	850			37	2	0		38	S	20	AL		
	SPAR MTN, MIS	2810		#			44	0	0		38	L	8	AC		
	MCCLOSKEY, MIS	2825	1947	#			6	0	0			L	8	AC		
							21	0	0		38	L	14	AC		
WEST SEMINARY, CLAY, 2N, 7E	AUX VASES, MIS	2972	1959	320	0.0	819.9	29	0	0	2	37	S	10	MC	MIS	3198
	SPAR MTN, MIS	3059	1959	230			18	0	0			L	6	MC		
	MCCLOSKEY, MIS	3068	1959	290			3	0	0		38	OL	12	MC		
				#			14	0	0							
WESTFIELD, CLARK, COLES, 11-12N, 11E-14W	GAS, PEN	280	1904	9710	X	X	1850	10	0	252	28	S	25	U	STP	3009
	WESTFIELD, MIS	335		1440			242	3	0		32	L	X	0		
	CARPER, MIS	875		8840			37	2	0		38	S	18	0		
	TRENTON, ORO	2300		580			28	0	0		38	0.18	L	40	0	
				1710			87	0	0							
SEE CLARK COUNTY DIVISION FOR PRODUCTION																
WESTFIELD E +, CLARK, 11-12N, 14W	PENNSYLVANIAN	400	1947	310	2.9	9.3	44	0	0	31	28	S	11	ML	MIS	795
WESTFIELD N, COLES, 12N, 14W	PLEASANTVIEW, PEN	275	1949	20	0.0	0.4	2	0	0	0	28	S	5		PEN	611
	PENNSYLVANIAN	490	1949	20		0.4	1	0	0			S	10			
				#			1	0	0							
ABO 1957																
WHITEASH, WILLIAMSON, 8S, 2E	AUX VASES, MIS	2464	1972	70	2.5	22.9	5	0	0	4		S	12		MIS	2651
	OHARA, MIS	2532	1972	60			4	0	0			L	8			
				20			2	0	0							
WHITTINGTON, FRANKLIN, 5S, 3E	MAROINSBURG, MIS	2310	1939	1040	66.1	2709.3	77	1	0	43	38	S	10	A	DEV	4810
	CYPRESS, MIS	2535	1948	430			28	0	0		35	S	10	A		
	BETHEL, MIS	2612	1961	240			16	0	0		38	S	4	A		
	AUX VASES, MIS	2735		60			3	0	0		38	S	15	A		
	OHARA, MIS	2835		120			11	0	0		37	L	10	AC		
				400			13	0	0							
(CONTINUED ON NEXT PAGE)																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone		Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone	Kind of rock, avg. thickness in feet, structure	Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)			Zone	Depth (ft)
(CONTINUED FROM PREVIOUS PAGE)																
*WHITTINGTON, FRANKLIN, 5S, 3E																
	SPAR MTN, MIS	2880		#			7	0	0				L	10	AC	
	MCCLOSKEY, MIS	2870	1939				7	0	0		38	0.24	L	9	AC	
	ST. LOUIS, MIS	3080	1939	40			5	0	0		38	0.24	L	6	AC	
	SALEM, MIS	3300	1977	20			1	1	0				L	10		
	ULLIN, MIS	3560	1977	20			1	1	0				L	7		
WHITTINGTON S, FRANKLIN, 5-6S, 3E																
	CYPRESS, MIS	2580	1950	120	2.5	474.5	10	0	0	10	35		S	10	A	MIS 3904
*WHITTINGTON W, FRANKLIN, 5S, 2-3E																
			1943	670	0.0	1571.2	38	0	0	2				A		MIS 3535
	BENOIST, MIS	2615	1949	10			1	0	0		36		S	10	AL	
	RENAULT, MIS	2700	1956	480			21	0	0		37		L	X	A	
	AUX VASES, MIS	2700	1944	180			13	0	0		38		S	15	AL	
	OHARA, MIS	2800	1943	110			5	0	0				L	5	AC	
	SPAR MTN, MIS	2780	1947	#			2	0	0				L	4	AC	
	MCCLOSKEY, MIS	2900		#			3	0	0		38		L	6	AC	
*WILBERTON, FAYETTE, 5N, 2-3E																
			1959	1070	32.8	1782.9	58	0	0	36						ORO 4528
	BORDEN, MIS	2628	1963	10			1	0	0		35		S	38		
	CARPER, MIS	3203	1961	1060			46	0	0		37		S	39		
	LINGLE, DEV	3466	1959	60			5	0	0		28		S	4		
*WILLIAMS C, JEFFERSON, 2-3S, 2E																
			1948	490	12.3	1382.4	45	0	0	32				A		DEV 4578
	BENOIST, MIS	2490	1949	230			17	0	0		39		S	10	AL	
	AUX VASES, MIS	2550	1949	400			29	0	0		37		S	5	AL	
	MCCLOSKEY, MIS	2600		10			1	0	0		37		L		AC	
*WOBURN C, BOND, 6-7N, 2W																
			1940	1430	21.9	4522.7	139	3	0	53				A		ORO 3279
	CYPRESS, MIS	865	1950	310			20	0	0		35		S	8	AL	
	BENOIST, MIS	1020	1940	340			38	0	0		36	0.20	S	10	AL	
	RENAULT, MIS	1047	1958	10			1	0	0		36		L	X	AL	
	AUX VASES, MIS	1055	1956	140			5	0	0		36		S	10	AL	
	LINGLE, DEV	2275	1949	720			56	0	0		35		S	8	AC	
	TRENTON, ORO	3170	1947	350			22	3	0		39	0.27	L	12	A	
*WOODLAWN, JEFFERSON, 2-3S, 1-2E																
			1940	1900	58.0	18193.2	194	0	4	71				A		ORO 5101
	TAR SPRINGS, MIS	1440		30			3	0	0		35		S	X	AL	
	CYPRESS, MIS	1800	1943	180			3	0	1		37		S	10	AL	
	BENOIST, MIS	1960	1940	1860			175	0	2		37	0.16	S	25	A	
	AUX VASES, MIS	1975	1945	270			24	0	0		38		S	10	A	
	SPAR MTN, MIS	2205	1947	240			15	0	1		38		LS	15	A	
	MCCLOSKEY, MIS	2200	1948	#			1	0	0				L	3	A	
	LINGLE, DEV	3690	1945	70			11	0	0		37		S	6	A	
XENIA, CLAY, 2N, 5E																
			1941	120	0.0	46.7	8	0	0	3				A		DEV 4745
	AUX VASES, MIS	2785	1941	10			1	0	0		35	0.19	S	13	A	
	CARPER, MIS	4230	1962	110			7	0	0		38		S	12		
XENIA E, CLAY, 2N, 5E																
			1951	300	10.0	911.7	29	0	0	12				A		MIS 4620
	CYPRESS, MIS	2500	1951	260			18	0	0		37		S	6	AL	
	BENOIST, MIS	2710		110			9	0	0		35		S	6	AL	
	RENAULT, MIS	2755	1959	20			2	0	0		35		S	15	AL	
	AUX VASES, MIS	2741	1960	30			3	0	0		35		S	10	A	
YALE, JASPER, 8N, 11E																
			1966	40	0.7	5.6	4	0	0	2						MIS 2390
	SPAR MTN, MIS	2070	1966	40			1	0	0				L	10		
	MCCLOSKEY, MIS	2140	1966	#			3	0	0		37		L	6		
*YORK, CUMBERLAND, CLARK, 9-10N, 10-11E, 14W																
	ISABEL, PEN	590	1907	410	X	X	79	0	0	10	31		S	15	AM	DEV 2642
SEE CLARK COUNTY DIVISION FOR PRODUCTION, APR 1945, REV 1950																

TABLE 8. Illinois oil fields statistics, 1977—continued

Field, County location by township and range (*Secondary recovery— see Part II, p. 73-144)	Pay zone	Year of dis- cov- ery	Area proved in acres	Oil production (M bbl)		Number of wells				Character of oil		Pay zone	Deepest test			
	Name and age			Depth (ft)	During 1977	To end of 1977	Com- pleted to end of 1977	Com- ple- ted in 1977	Aban- doned 1977	Pro- ducing end of year	Gr. °API	Sul- fur (%)	Kind of rock, avg. thickness in feet, structure	Zone	Depth (ft)	
*ZEIGLER, FRANKLIN, 7S, 2E																
-----																
	AUX VASES, MIS	2614	1963	350	22.4	2083.7	34	0	0	33	37	S	19	MIS	3030	
ZENITH, WAYNE, 2N, 5E																
-----																
	MCCLOSKEY, MIS	2970	1948	50	0.0	24.6	5	0	0	2				MIS	3601	
	ST LOUIS, MIS	3088	1948	40			4	0	0	38		L	7	AC		
			1969	10			1	0	0			L	6			
ABO 1956, REV 1969, ABO 1970, REV 1973																
*ZENITH E, WAYNE, 1N, 6E																
-----																
	SPAR MTN, MIS	3170	1965	250	4.0	533.0	14	0	0	11	37	L	10	MIS	3850	
*ZENITH N, WAYNE, 2N, 6E																
-----																
	SPAR MTN, MIS	3080	1951	440	34.6	1395.8	32	0	0	19				N	MIS	3935
	MCCLOSKEY, MIS	3140	1951	280			15	0	0	38		L	6	NC		
	SALEM, MIS	3634	1972	230			6	0	0			L	4	NC		
							15	0	0			L	6	NC		
ZENITH S, WAYNE, 1N, 5E																
-----																
	OHARA, MIS	2920	1949	300	0.0	765.9	15	0	0	0				M	MIS	3827
	MCCLOSKEY, MIS	2985	1949	300			2	0	0			L	6	MC		
				#			13	0	0	37		L	7	MC		
ABO 1966, REV 1967, ABO 1970																
Production, location unknown																
580.0																
TOTAL																
610,180 25,608.1 3,078,422 67,252 642 425 23,758																

TABLE 9. Illinois gas field statistics, 1977

Field: N, North; S, South; E, East; W, West; C, Consolidated.  
Fields located in two or more counties have county names listed in order of discovery.

Age: Pc, Precambrian; Cam, Cambrian; Ord, Ordovician; Shk, Shakopee; St. P, St. Peter; Trn, Trenton; Sil, Silurian; Dev, Devonian; Mis, Mississippian; Pen, Pennsylvanian.

Kind of rock: D, dolomite; L, limestone; LS, sandy limestone; S, sandstone.

Abd: Field abandoned.

Rev: Field revived.

Structure: A, anticline; D, dome; F, faulting an important factor in gas accumulation; f, faulting a minor factor in gas accumulation; L, lens; M, monocline; R, reef; N, structure not determined. Combinations of the letters are used where more than one factor applies.

\* Correct figure not determinable.

\* Field also listed in table 8 (oil production).

++ Gas storage project.

Field; county; location by township and range	Pay zone	Depth (ft)	Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pro- ducing end of year	Pay zone			Thick- ness test		
	Name and age				During 1977	To end of 1977	Completed to end of 1977	Com- pleted in 1977	Aban- doned 1977		Kind of rock, average thickness in feet, structure	Zone	Depth (ft)			
Albion C*; Edwards, White; 3S; 10E																
	Pennsylvanian	1,490	1940	50	0	0	0	0	0	0	S	6	MF	Dev	5,185	
Alhambra; Madison; 5N; 6W																
	Pennsylvanian	600	1974	20	0	0	1	0	0	0	S	6	X	Sil	2,005	
Ashmore E*; Edgar; 13N; 14W																
	Pennsylvanian	367	1973	20	0	0	2	1	0	0	S	22	X	Dev	1,228	
Ashmore S* <sup>++</sup> ; Clark, Coles; 12N; 10-11E, 14W																
	Unnamed, Pen		1958	460	0	*	23	0	0	0			A	Trn	2,260	
	Osage, Mis	430	1958	440			22				S	*	A			
		385	1963	20			1				S	*	X			
Ava-Campbell Hill*; Jackson; 7S; 3-4W																
	Cypress, Mis	780	1916	370	0	*	20	0	0	0	S	18	A	Trn	3,582	
					Abd 1943; rev (oil) 1956; abd 1957											
Ayers Gas; Bond; 6N; 3W																
	Benoist, Mis	940	1922	325	0	298.7	21	0	0	0	S	5	A	Ord	3,044	
					Abd 1950											
Beaver Creek N*; Bond; 4N; 2W																
	Benoist, Mis	1,132	1965	40	0	0	1	0	0	0	S	*	X	Dev	2,556	
Beaver Creek NE Gas <sup>++</sup> ; Bond; 4N; 2W																
	Benoist, Mis	1,126	1961	70	0	*	7	0	0	0	S	5		Sil	2,487	
Beaver Creek S*; Bond, Clinton; 3-4N; 2W																
	Cypress, Mis	1,015	1946	280	0	0	8	1	0	0	S	20	A	Sil	2,606	
Beckemeyer Gas*; Clinton; 2N; 3W																
	Cypress, Mis		1956	90	0	0	2	0	0	0				Sil	2,730	
	Benoist, Mis	1,070	1956	80			1				S	23				
		1,155	1975	10			1				S	13				
					Abd 1958; rev 1975											
Bellair*; Crawford; 8N; 14W																
	Carper, Mis	1,772	1970	10	0	0	1	0	0	0	S	45		Dev	2,732	
Beverly Gas; Adams; 3S; 5W																
	Silurian	450	1957	80	0	0	2	0	0	0	L	6	X	St. P	840	
Black Branch E*; Sangamon; 15N; 4W																
	Silurian	1,695	1969	20	0	0	1	0	0	0	L	23		Sil	1,755	
Boulder*; Clinton; 2-3N; 2W																
	Geneva, Dev	2,630	1941	320	0	0	4	0	0	0	D	7	R	Trn	3,813	
					Abd 1965											

TABLE 9. Illinois gas field statistics, 1977—continued

Field; county; location by township and range	Pay zone		Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells				Pay zone			Deepest test		
	Name and age	Depth (ft)			During 1977	To end of 1977	Completed to end of 1977	Com- pleted in 1977	Aban- doned 1977	Pro- ducing end of year	Kind of rock, average thickness in feet, structure			Zone	Depth (ft)	
Boulder E*; Clinton; 3N; 1W																
	Devonian	2,840	1957	80	0 Abd 1957	0	2	0	0	0	L	12	X	Sil	2,946	
Carlinville*; Macoupin; 9N; 7W																
	Unnamed, Pen	365		60	0 Abd 1925; rev 1942	0	6	0	0	0	S	x	A	Mis	1,380	
Carlinville N*; Macoupin; 10N; 7W																
	Pottsville, Pen	440	1941	40	0 Abd 1954	0	1	0	0	0	S	10	X	Trn	1,970	
Carlyle*; Clinton; 2N; 3W																
	Cypress, Mis	1,015	1958	20	0	x	2	0	0	0	S	x	AL	St. P	4,120	
Casey*; Clark																
	Casey, Pen	440		x	0	x	x	0	0	0	S	x	AM	Trn	2,608	
Claremont; Richland; 3N; 14W																
	Spar Mtn, Mis	3,200	1950	160	0 Abd 1952	0	1	0	0	0	L	5	MC	Mis	3,340	
Cooks Mills C* <sup>++</sup> ; Coles, Douglas; 14N; 7-8E																
			1941	950	0	1,895.4	23	0	0	0			A	Dev	3,059	
	Cypress, Mis	1,600		680			14				S	10	A			
	Aux Vases, Mis	1,800		40			1				S	8	A			
	Spar Mtn, Mis	1,765		450			6				S	15	A			
Cooperstown; Brown; 1S; 2W																
	Silurian	516	1977	10	0	0	1	1	0	0	L	6	X	Sil	516	
Corinth S; Williamson; 9S; 4E																
	Hardinsburg, Mis	2,232	1970	60	0	147.4	4	0	0	0	S	4		Mis	2,823	
Dubois C*; Washington; 3S; 1-2W																
	Cypress, Mis	1,220	1939	400	0	0	10	0	0	0	S	10	AL	Ord	4,217	
Dudley*; Edgar; 14N; 13W																
	Pennsylvanian	300	1948	170	0	x	5	0	0	0	S	20	M	St. P	2,997	
Dudlev W Gas; Edgar; 13N; 13W																
	Gas, Pen	380	1953	130	0	0	4	0	0	0	S	11	X	Pen	478	
Eden Gas <sup>++</sup> ; Randolph; 5S; 5W																
	Cypress, Mis	875	1962	1,000	0	0	15	0	0	0	S			Mis	2,377	
Eldorado C*; Saline; 8S; 7E																
			1941	300	4.6	3,710.0	18	1	0	2			A	Mis	3,606	
	Palestine, Mis	1,920		120			3				S	20	AL			
	Waltersburg, Mis	2,055		80			2				S	20	AL			
	Tar Springs, Mis	2,225		40			4				S	17	AL			
	Hardinsburg, Mis	2,353	1962	120			4				S	5				
	Cypress, Mis	2,460		90			2				S	20	X			
Eldorado E*; Saline; 8S; 7E																
			1953	120	33.4	976.4	10	0	0	2			A	Mis	3,666	
	Palestine, Mis	1,900		90			5	0	0		S	30	AL			
	Tar Springs, Mis	2,135		20			5	0	0		S	20	AL			
	Cypress, Mis			10			1									
Eldorado W*; Saline; 8S; 6E																
	Palestine, Mis	1,923	1960	10	0	0	1	0	0	0	S	27	X	Mis	3,138	



TABLE 9. Illinois gas field statistics, 1977--continued

Field; county; location by township and range	Pay zone		Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells				Pay zone			Deepest test	
	Name and age	Depth (ft)			During 1977	To end of 1977	Completed to end of 1977	Com- pleted in 1977	Aban- doned 1977	Pro- ducing end of year	Kind of rock, average thickness in feet, structure			Zone	Depth (ft)
Ficklin; Douglas; 16N; 8E															
	Spar Mtn, Mis	1,444	1966	40	0	0	1	0	0	0	S	20	X	Cam	5,301
Fishhook Gas; Adams, Pike; 3-4S; 4-5W															
	Edgewood, Sil	450	1955	7,260	0	0	69	0	0	0	L	5	X	St. P	1,018
Freeburg* <sup>++</sup> ; St. Clair; 1-2S; 7W															
	Cypress	380	1956	700	0	x	29	0	0	0	S	30	X	Ord	2,008
Gillespie-Benld (Gas) <sup>++</sup> ; Macoupin; 8N; 6W															
	Unnamed, Pen	540	1923	80	0	135.8	5	0	0	0	S	x	A	Pen	603
					Abd 1935										
Gillespie W; Macoupin; 8N; 7W															
	Unnamed, Pen	525	1958	10	0	0	1	0	0	0	S	x	X	Pen	565
					Abd 1976										
Grandview*; Edgar; 12-13N; 13W															
			1945	500	0	x	21	4	0	0			M	Ord	2,694
	Gas, Pen	400		460			20	4			S	x	ML		
	Salem, Mis	570		40			1	0			L	2	ML		
Greenville Gas*; Bond; 5N; 3W															
	Lindley (1st and 2nd), Mis	925	1910	180	0	990.0	4	0	0	0	S	x	A	Trn	3,184
					Abd 1923; rev 1957; abd 1958										
Harco, Harco E, Harco S, and Raleigh S*; Saline; 8S; 5E															
	X, Mis	x	1954	x	19.0	2,373.2	x	0	2	1				Mis	3,455
Harrisburg*; Saline; 8S; 6E															
	Tar Springs, Mis	2,085	1952	160	0	93.2	1	0	0	0	S	6	X	Mis	2,930
					Abd 1971										
Herald C*; Gallatin, White; 6-8S; 9-10E															
			1939	1,080	0	x	19	0	0	0			A	Dev	5,285
	Anvil Rock, Pen	700		360			9				S	25	AL		
	Pennsylvanian	1,750		120			3				S	18	AL		
	Waltersburg, Mis	2,240		120			3				S	10	A		
	Tar Springs	2,315		480			4				S	6	AL		
Hutton*; Coles; 11N; 10E															
	Pennsylvanian	620	1965	80	0	0	2	0	0	0	S	x	X	Mis	969
Inclose*; Clark, Edgar; 12N; 13-14W															
	Pennsylvanian	540	1941	480	0	x	21	5	0	0	S	12	X	Mis	1,600
Jacksonville (Gas)*; Morgan; 15N; 9W															
	Gas, Pen, Mis	330	1910	1,320	0	x	45	0	0	0	L.S	5	ML	Ord	1,390
					Abd 1939										
Johnston City E; Williamson; 8S; 3E															
	Tar Springs, Mis	1,930	1965	80	37.5	918.1	4	0	0	4	S	10	X	Mis	2,997
Kansas Gas; Edgar; 13N; 14N															
	Unnamed, Pen	410	1958	30	0	x	3	0	0	0	S	x	X	Mis	778
Lawrence; Lawrence; 3N; 12W															
	McClosky, Mis	2,050	1975	10	0	0	1	0	0	0	L			Cam	9,261

TABLE 9. Illinois gas field statistics, 1977--continued

Field, location, ownership, and limits	Pay zone Name and age	Depth (ft)	Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells				Pay zone			Deepest test	
					During 1977	To end of 1977	Completed to end of 1977	Com- pleted in 1977	Aban- doned 1977	Pro- ducing end of year	Kind of rock, average thickness in feet, structure			Zone	Depth (ft)
Livingston E; Madison; 6N; 6W															
	Pennsylvanian	540	1951	60	0	0	3	0	0	0	S	12	X	Mis	815
Livingston S*; Madison; 6N; 6W															
	Pennsylvanian	530	1950	40	0	0	1	0	0	0	S	2	ML	Sil	1,735
Louden* ; Favette; 7N; 3E															
			1937	1,760	0	x	14	0	0	0			A	Pc	8,616
	Burtschi, Pen	1,000		320			5				S	20	AL		
	Tar Springs, Mis	1,170		1,440			9				S	2	AL		
Main C*; Crawford, Lawrence; 5-8N; 10-14W															
			1906	x	0	x	x	5	0	0			M	St. P	5,317
	Robinson, Pen	1,000		x			x	5	0		S	x	ML		
	Hardinsburg, Mis	1,075		160			1	0	0		S	40	ML		
	Cypress, Mis	1,425		320			2	0	0		S	6	ML		
	Aux Vases, Mis	1,527	1959	60			6	0	0		S	8	ML		
Marion E*; Williamson; 9S; 3E															
	Aux Vases, Mis	2,406	1966	40	0	0	1	0	0	0	S	4	X	Mis	2,642
Marissa W (Gas)*; St. Clair; 3S; 7W															
	Cypress, Mis	241	1960	60	0	x	7	0	3	0	S	25		Ord	2,413
Mattoon*; Coles; 12N; 7E															
	Devonian	3,124	1948	1,010	848.1	6,776.2	32	3	3	20	L	4		St. P	4,915
Mt. Olive*; Montgomery; 8N; 5W															
	Pottsville, Pen	605	1942	100	0	x	4	0	0	0	S	6	A	Sil	1,878
New Athens Gas; St. Clair; 2S; 7W															
	Cypress, Mis	250	1961	250	0	0	10	0	0	0	S	13		Mis	400
New Harmony C*; White, Wabash, Edwards; 1N; 1-5S; 13-14W															
	Pennsylvanian	764	1974	10	0	0	1	0	0	0	S	12		Shk	7,682
New Hebron E*; Crawford; 6N; 12W															
	Robinson, Pen	866	1968	30	0	0	3	0	0	0	S	x	X	Mis	1,571
Omaha*; Gallatin; 7-8S; 8E															
			1940	130	0	221.4	4	0	0	0			D	Dev	5,320
	Palestine, Mis	1,865	1973	10			1	0	0		S		D		
	Tar Springs, Mis	1,900	1940	120			3	0	0		S	15	D		
Panama*; Bond, Montgomery; 7N; 3-4W															
			1940	280	0	x	7	0	0	0			A	Dev	2,016
	Pennsylvanian	575		160			4				S	30	A		
	Benoist, Mis	865		120			3				S	12	A		
Pittsburg N Gas*; Williamson; 8S; 3E															
	Hardinsburg, Mis	2,151	1962	20	0	10.0	2	0	0	0	S	6		Mis	3,070
Pittsfield (Gas); Pike; 5S; 4-5W															
	Niagaran, Sil	265	1886	8,960	0	x	68	0	0	0	L	10	A	Pc	2,226
					Abd 1930										
Plainview*; Macoupin; 8N; 8W															
	Pennsylvanian	441	1961	20	0	0	2	0	0	0	S	20	X	Pen	563

TABLE 9. Illinois gas field statistics, 1977—continued

Field; county; location by township and range	Pay zone	Depth (ft)	Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pro- ducing end of year	Pay zone			Deepest test		
	Name and age				During 1977	To end of 1977	Completed to end of 1977	Com- pleted in 1977	Aban- doned 1977		Kind of rock, average thickness in feet, structure	Zone	Depth (ft)			
Prentice*; Morgan; 16N; 8W																
	Pennsylvanian	260	1953	290	0	0	7	0	0	0	S	15	X	Ord	1,513	
Raleigh*; Saline; 8S; 6E																
	Waltersburg, Mis	2,307	1962	50	14.3	554.2	2	0	0	1	S	7	X	Mis	3,249	
Redmon N; Edgar; 14N; 13W																
	Pennsylvanian	365	1955	50	0	0	2	0	0	0	S	3	X	Mis	450	
Richwood (Gas) <sup>++</sup> ; Crawford; 6N; 11W																
	Pennsylvanian	612	1959	160	0	28.6	4	0	0	0	S	9	X	Pen	1,001	
Roland C*; Gallatin; 7S; 8E																
	Waltersburg, Mis	2,150	1940	160	0	0	1	0	0	0	S	19	AL	Dev	5,266	
Russellville Gas*; Lawrence; 4-5N; 10-11W																
			1937	1,800	0	7,081.6	60	0	0	0			A	Dev	3,133	
	Bridgeport, Pen	760		/	/	/	18			0	S	15	AL			
	Buchanan, Pen	1,100		/	/	/	42				S	12	AL			
					Abd 1949											
St. Libory; St. Clair; 1S; 6W																
			1964	240	0	0	7	0	0	0				Sil	1,997	
	Cypress, Mis	622	1965	40			1				S	11	X			
	Benoist, Mis	754	1964	40			1				S	22	X			
	Aux Vases, Mis	825	1964	120			4				S	10	X			
	Silurian			120			3				L		X			
Spanish Needle Creek (Gas); Macoupin; 9N; 7W																
	Unnamed, Pen	305	1915	80	0	14.4	7	0	0	0	S	x	D	Trn	2,070	
					Abd 1934											
Sparta*; Randolph; 4-5S; 5-6W																
	Cypress, Mis	850	1888	160	0	x	18	0	0	0	S	7	D	Trn	3,130	
					Abd 1900											
Staunton (Gas)*; Macoupin; 7N; 7W																
	Unnamed, Pen	460	1916	400	0	1,050.0	18	0	0	0	S	x	A	Ord	2,371	
					Abd 1919											
Stirtz*; Williamson; 8S; 2E																
	Tar Springs, Mis	1,951	1971	10	6.7	68.1	1	0	0	1	S	14		Mis	2,756	
Storms C*; White; 5-6S; 9-10E																
			1939	440	0	x	9	0	0	0				A	Dev	5,174
	Gas, Pen	1,090		170			2				S	40	Af			
	Waltersburg, Mis	2,230		280			7				S	15	AL			
Stubblefield S*; Bond; 4N; 4W																
			1962	230			10	1	0	3				Dev	2,455	
	Pennsylvanian	590	1971	10				0			S	x	X			
	Cypress, Mis	920	1962	220	39.8	330.3		1			S	x	X			
Sumner S (Gas); Lawrence; 3N; 13W																
	Aux Vases, Mis	2,566	1959	40	0	0	2	0	0	0	S	10		Mis	2,990	
Tamaroa*; Perry; 4S; 1W																
	Cypress, Mis	1,120	1942	20	0	0	2	0	0	0	S	13	AL	Trn	4,287	
Tilden N Gas <sup>++</sup> ; Washington, St. Clair; 3S; 5-6W																
	Cypress, Mis	780	1961	x	0	x	x	0	1	0	S	25		Ord	2,810	

TABLE 9. Illinois gas field statistics, 1977—continued

Field; county; location by township and range	Pay zone	Depth (ft)	Year of dis- covery	Area proved in acres	Gas production million cu ft		Number of wells			Pay zone			Deepest test		
	Name and age				During 1977	To end of 1977	Completed to end of 1977	Com- pleted in 1977	Aban- doned 1977	Pro- ducing end of year	Kind of rock, average thickness in feet, structure	Zone	Depth (ft)		
Waggoner*; Montgomery; 11N; 5W															
	Pottsville, Pen	523	1959	10	0	0	1	0	0	0	S	2	X	Sil	1,945
Wamac E* <sup>††</sup> ; Marion; 1N; 1E															
	Petro, Pen	856	1958	90	0	x	9	0	0	0	S	x	M	Dev	3,405
Waverly* <sup>††</sup> ; Morgan; 13N; 8W															
			1946	900	0	0	8	0	0	0			A	Ord	2,070
	Pennsylvanian	250		160			1				S	13	AL		
	Devonian	1,000		700			6				L	10	A		
	Trenton, Ord	1,513	1963	40			1				L	x	X		
Westfield E*; Clark; 12N; 14W															
	Pennsylvanian	400	1947	60	0	0	3	0	0	0	S	11	ML	Mis	795
Totals for Illinois (estimated)				36,390	1,003.4	27,682.5	788	22	9	34					





## Part II. Waterflood Operations

T. F. Lawry

### SUMMARY OF SECONDARY RECOVERY OPERATIONS

During 1977, 5 waterflood projects were reported for the first time by their respective operators, and 82 additional projects were reported as the result of field studies conducted over several years. Data for older waterfloods, active and abandoned, and information for the newly reported projects is included in table 11 and summarized in tables 10, 12, 13, and 14.

Among the "new" projects, 11 were less than 3 years old; the remainder were older, including 16 that were classified as "adjacent to active waterflood." Most of the older waterfloods that were reported for the first time in 1977 are in areas adjacent to older or contemporary waterfloods. These projects generally cover small areas—only 5,760 pay acres were added to the total. If Illinois had had a unitization statute, in many cases the acreage probably would have been included in a potential unit operation, or the wells would have been drilled by the unit operator on behalf of the unit participants. In 1977, 35 waterfloods were reported that were abandoned during the year or earlier.

The addition of 5,760 pay acres during 1977 was partially offset by a reduction of 410 pay acres in older waterfloods. This reduction represents a correction in total acreage for a waterflood in which the acreage had been reported redundantly for two members of the Ste. Genevieve Formation. Total pay area under fluid injection in Illinois is now 415,817 acres. Pressure maintenance area remains at 5,378 acres, and waterflood acreage is 410,439. Total pay acreage in Illinois increased to 789,175 at the end of 1977. Waterflood acreage is 52.0 percent of the total pay area in Illinois.

Secondary recovery oil was estimated to be 15,221,200 barrels. Waterfloods accounted for

15,046,800 barrels or 58.7 percent of the total oil produced during 1977 in Illinois; pressure maintenance projects reported 174,400 barrels or 0.7 percent of the total oil produced during 1977.

The assistance of the operators in making their waterflood data available to the Illinois State Geological Survey is acknowledged with thanks.

### EXPLANATION OF TABLES

Table 10, "Project Numbers by County and Summary of Waterflood Projects in 1977," lists the counties having waterflood activity and the range of county numbers, and includes the number and status of projects in each county.

Table 11, "Waterflood Operations in Illinois, 1977," is a summary of the data for each secondary recovery project, active and abandoned. Most of the data supplied by the operator are incorporated in this table. If no data are reported to the Illinois State Geological Survey for a project, an estimate of the information is made on the basis of past performance.

Table 12, "Illinois Waterfloods for 1977 by Counties," is a summary of waterflood data for each county. For those waterfloods that are located along county lines and extend into more than one county, the project is assigned to the county in which the larger areal portion is located. Data are tabulated as though the entire project were in that county.

Table 13, "Illinois Oil Fields Having Active Waterfloods During 1977," is a tabulation of statistics for those fields in which secondary recovery oil is being produced.

Table 14, "Summary of Waterflood Statistics 1949-1977," is a tabulation of waterflood data, compiled on an annual basis, for the past 29 years.

Information regarding the usage of fresh water for waterflood purposes indicates that the decline in the amount of fresh water used is continuing. Almost all of the fresh water used is taken from the alluvial valley of the Wabash River or its tributaries.

### TERTIARY RECOVERY

The micellar-polymer tertiary recovery project operated by Marathon Oil Company in a cost-sharing test of the Maraflood process in Main Consolidated field, Crawford County, proceeded on schedule during 1977 except for a slight delay caused by the shortage of a critical ingredient in the crude oil sulfonate slug. The item in short supply was replaced by a substitute ingredient after a period of testing to ensure the efficacy of the new formula.

### MAP OF OIL FIELDS

Figure 3 (pages 135 to 145) is a map of the oil fields of Illinois showing an outline of the fields and the extent to which each field has been waterflooded.

In spite of the fact that waterflood operations appear to have been applied to almost all of the productive acreage in Illinois in which waterflooding is feasible, the total secondary recovery acreage is only slightly more than 50 percent of the total productive acreage. This relationship has existed for the past ten years and will probably continue in the foreseeable future.

Exploration for deeper oil has had enough success to cause a decrease in the rate of decline in total production. From 1968 to 1974, the rate of decline averaged about 10 percent per year; in 1975, the rate was about 5 percent. In 1976, there was an increase in production of 0.8 of 1 percent; and in 1977, a decline of 2.5 percent. Waterflood production has declined approximately 7 percent per year.

### ABBREVIATIONS

The following abbreviations are used in tables 10 through 14:

abd - abandoned	incl - includes, including, included
adj - adjacent	inj - injection
cum - cumulative	N.A. - not available
D.f. - dump flood	op - operator, operation
disc - discontinued	P.M. - pressure maintenance
est - estimate, estimated	prim - primary
excl - excludes, excluding, excluded	prod - production
form - formerly	S.D. - shut down
	temp - temporary, temporarily

TABLE 10. Project numbers by county and summary of waterflood projects in 1977

Range of county numbers	County	Active water- floods	Active pressure maintenance	Abandoned	Total
001-007	Bond	4	0	3	7
100-107	Christian	8	0	0	8
200-231	Clark	8	0	20	28
300-393	Clay	51	0	40	91
400-420	Clinton	14	1	6	21
500-525	Coles	11	0	15	26
589-698	Crawford	44	0	48	92
700-708	Cumberland	5	0	3	8
800-802	Douglas	0	0	3	3
900-907	Edgar	7	0	1	8
1000-1040	Edwards	24	1	16	41
1100-1121	Effingham	18	0	4	22
1200-1255	Fayette	47	0	8	55
1300-1344	Franklin	26	0	18	44
1400-1458	Gallatin	30	0	29	59
1500-1578	Hamilton	29	0	48	77
1900-1931	Jasper	16	0	15	31
2000-2037	Jefferson	23	1	13	37
2200-2295	Lawrence	66	0	27	93
2300-	Macon	0	0	1	1
2400-	Macoupin	1	0	0	1
2500-2509	Madison	7	0	3	10
2600-2640	Marion	29	0	11	40
2900-	Montgomery	0	0	1	1
3100-3101	Perry	2	0	0	2
3400-3449	Richland	24	0	25	49
3600-3627	Saline	16	0	11	27
3800-3803	Shelby	3	0	1	4
3837-3999	Wabash	83	0	70	153
4000-4026	Washington	25	0	2	27
4046-4199	Wayne	88	0	62	150
4200-4457	White	148	0	107	255
4501-4505	Williamson	5	0	0	5
	Total	862	3	611	1,476

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
AB LAKE W, GALLATIN											
*1417 COY OIL CO		AB LAKE WEST UNIT	WALTERSHURG	30,31-AS-10E		1091		184*		526*	
*1421 COY OIL CO		AB LAKE WEST UNIT	AUX VASES	30,31-AS-10E		219		*		*	
*1452 PAUL S. KNIGHT		GOLDEN-CONN	WALTERSHURG	29,31,32-8S-10E		400*		70*		400*	
ADEN C, HAMILTON, WAYNE											
4158 FAIRFIELD OIL CO		SW FAIRFIELD UNIT	AUX VASES	22-2S-7E	12	1622	1.2	135	12	776	
4181 M AND M OIL CO.		NORTH ADEN UNIT	AUX VASES	28,32,33-2S-7E	711*	16331**	20.2*	1456**	711*	24285**	
			MCCLOSKEY	4,5,8-3S-7E		18660**					
*4101 TEXACO, INC.		ADEN SOUTH	AUX VASES	8,9,16,17,20-3S-7E		6138		1050		8418*	
*4102 TEXACO, INC.		ADEN SOUTH	MCCLOSKEY	8,9,16,17,20-3S-7E		6506		660		*	
ADEN S, HAMILTON											
*1521 H. WEINERT EST.		SOUTH ADEN UNIT	AUX VASES	29,30-3S-7E		2477		176			
			SPAR MTN								
			MCCLOSKEY								
AKIN, FRANKLIN											
*1310 C. E. BREHM		LAWIN TRUSTEE A U	AUX VASES	36-6S-4E		109		*		*	
1311 C. E. BREHM		AKIN SE U	AUX VASES	25-6S-4E		2341*	0.9	258			
*1317 C. E. BREHM		U S COAL & COKE	CYPRESS	23-6S-4E		129		42		320*	
1321 C. E. BREHM		U S STEEL	AUX VASES	26-6S-4E	4	594	2.4	135	4*	289*	
1327 FARRAR OIL CO.		AKIN UNIT	AUX VASES	35-6S-4E	10*	350**	1.1*	67*	10*	138*	
ALBION C, EDWARDS, WHITE											
1001 ACME CASING		SOUTH ALBION U RIEHL	RIEHL	1,2-3S-10E	75*	3470*	6.7*	513*	75*	2384*	
*1011 ACME CASING		S ALBION L RIEHL U	RIEHL	1-3S-10E135,36-2S-10E		3226		704		2367	
1002 NICK BARARE		H. WICK	RRIDGEPORT	24-2S-10E	75*	2400*	5.2*	151*	75*	2087*	
			WALTERSHURG								
			OHARA								
1020 C. E. BREHM		MICHAELS	RIEHL	11-3S-10E	*	*	4.4**	135**	25**	500**	
*4201 CONCHO PET. CO.		NORTH CROSSVILLE UNIT	CYPRESS	27,34,35-3S-10E		3620		313		1270	
*4202 CONCHO PET. CO.		N CROSSVILLE U	TAR SPRINGS	34,35-3S-10E		868		58		69	
*1014 CONTINENTAL OIL		STAFFORD	MCCLOSKEY	13-2S-10E		625		43		637	
*1038 DELTA OIL CORP.		HORTON-WORKS	MCCLOSKEY	13-2S-10E		2000*		126**		2050*	
*1015 FIRST NATL PET		HOWA	AUX VASES	6-2S-11E		120*		14**		100*	
1006 GETTY OIL CO		SW ALBION RIEHL SD U	RIEHL	27,11,14-3S-10E	406	21428	20.3	1705	379	11395	
1026 JAM OIL CO		MAXWELL-MOSSHARGER	HETHEL	15-3S-10E	65*	499*	3.0*	37*	65*	499*	
4200 MOHIL OIL CORP.		RIEHL U 1	RIEHL	22,23-3S-10E	193	9674	4.0	1351	64	3905	
4308 MOHIL OIL CORP.		W GRAYVILLE U	HETHEL	23-3S-10E	38	2743	7.7	408	54	884	
			AUX VASES								
1005 BERNARD PODOLSKY		ALBION E U	AUX VASES	1-2S-10E16-2S-11E	154	2090	4.9	194	82	1106	
1035 RK PET. CORP.		RK EAST ALBION UNIT	AUX VASES	6-2S-11E, 1-2S-10E	32	1584	4.2	110	32	325	
*1000 REHSTOCK OIL CO.		RIEHL U 2	RIEHL	14-3S-10E		4194		610		1215	
*1018 REHSTOCK OIL CO.		EAST ALBION UNIT	AUX VASES	36-1S-10E, 31-1S-11E		1756		198		469	
4321 J. W. RUDY DRUG.		ROBINSON	TAR SPRINGS	23-3S-10E	10*	194*	0.7*	13*	10*	148*	
			RETHEL								
4434 J. W. RUDY DRUG.		GRIESHAM	CYPRESS	26-3S-10E	52*	250*	2.9*	24*	52*	246*	
			RETHEL								
			AUX VASES								
1012 SAHER OIL CO		HUNTING LSF	OHARA	12-2S-10E	85*	1170*	6.0*	147**	85*	1170*	
1033 SAHER OIL CO		ALBION U	AUX VASES	12-2S-10E17,18-2S-11E	120*	3118*	9.1*	350*	120*	1166*	
			OHARA								
1037 SO. TRIANGLE CO.		SOUTH ALBION WF	RETHEL	24,25-2S-10E	155*	1026*	8.6*	84*	155*	479*	
1003 SUPERIOR OIL CO.		SOUTH ALBION SPRING 1	RIEHL	25,36-2S-10E	679	12930	10.8	2007	404	6753	
1004 SUPERIOR OIL CO.		SOUTH ALBION UNIT 2	MANSFIELD	1,2,11,12-3S-10E	506	3886	17.1*	2053*	576*	17473*	
			RRIDGEPORT		281	8424					
			RIEHL		134	6582					
			WALTERSHURG			2305					
			AUX VASES			1328					
1032 SUPERIOR OIL CO.		WORKS UNIT	WALTERSHURG	18,19-2S-11E	118	813	18.7*	115*	141*	575*	
			HETHEL			174					
			AUX VASES			39					
			MCCLOSKEY		70	193*					
1036 SUPERIOR OIL CO.		WILLETT	WALTERSHURG	30-2S-11E	6	167	5.6	572	92	912	
*1030 TEXACO, INC.		BARNES EAST	WALTERSHURG	24-2S-10E		544*		33		537	
1039 TEXACO, INC.		G. WORKS	HETHEL	13-2S-10E	219	1550*	10.7	109*	219	1550*	
			AUX VASES								
*4353 P. O. WALL		GRAYVILLE WEST U	MCCLOSKEY	22-3S-10E		219*		61*		265*	
1031 WARRIOR OIL CO.		E. ALBION WALT. SAND U.	WALTERSHURG	31-1S-14W; 6-2S-14W	81	5853	3.1	755	22	2567	
ALBION EAST, EDWARDS											
1040 ZANETIS OIL PROP		ALBION EAST	CYPRESS	28-2S-14W	156	870	48.9	250	156*	830*	
			RETHEL								
			OHARA								
ALLENDALE, LAWRENCE, WARASH											
3969 ASHLAND O AND R		FRIENDSVILLE COOP	RIEHL	30-1N-12W	96	4798	3.3	316	96	4369	
3902 BELIGHMANN ET AL		PRICE-ROBINSON	RIEHL	14-1N-12W	30*	437*	0.8*	35*	30*	398*	
*3865 JOHN ALFONSOE, JR		MOVERMALE	HETHEL	36-2N-12W		64*		2*		12*	
*3844 CHARLES F. CARR		NAYLOR-ROBINSON-PAYNE	RIEHL	8-1N-12W		1000**		200**		1000**	
*3847 G. S. ENGLE		PATTON COOP	CYPRESS	28-1N-12W		1000**		180**		590**	
*3971 T. W. GEORGE EST.		YOUNG WF	HETHEL	1-1N-12W		206*		*		*	
*3990 M AND M OIL CO		RUCHANAN	CYPRESS	33-1N-12W		367		44		26	
*3900 CFCIL A. HAMMAN		GILLIATT-ALKA	RIEHL	13-1N-12W		2735		244			
*3869 ILLINOIS OIL CO.		FRENCH ET AL	RIEHL	32-2N-12W		39		10		5	
3899 ILLINOIS OIL CO.		PRICE HEIRS	RRIDGEPORT	2-1N-12W	10*	228*	0.5*	16*	10*	191*	
*3906 ILLINOIS OIL CO.		YOUNG	RIEHL	1-1N-12W		4547*		205**		1341**	
*3944 IND. FARM HUR.		WOODS *O*	RIEHL	20-1N-12W		633		45		559	
*3992 IND. FARM HUR.		KEYSER *M*	RIEHL	13-1N-12W		303		20		*	
3898 JACK KENEIPP		HERSHEY-COGAN	RIEHL	35-2N-12W		9*					
			CYPRESS		20*	680*	1.2*	76**	20*	531**	
3966 JACK KENEIPP		COGAN	RIEHL	35-2N-12W	15	1072	1.2*	200*	25*	1917*	
			CYPRESS		10	279					
*3999 JACK KENEIPP		WALSER	TAR SPRINGS	2-1N-12W		26		5		6	
*3952 L AND M DRILLING		STANLEY PRICE	RIEHL	19-1N-12W		887		167		348	
3905 HERMAN LOEH		ALLENDALE (FLOOD 19)	RIEHL	3,4,9,10-1N-12W	400*	38459*	20.0*	2099*			



Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
<b>AB LAKE W, GALLATIN</b>													
*1417	2025	17.0	16.3	20	36.9	07-59	06-64	6	9	180	SH GRAV, PENN SD (F)	(F)	*INCL 1421
*1421	2750	10.0	16.3	27	37.1	07-59	06-64	1	2	30	SH GRAV, PENN SD (F)	(F)	*INCL WITH 1417
*1452	2000	15.0				05-64	12-71	2	5	90	PRODUCED (R)		*ESTIMATED
<b>ADEN C, HAMILTON, WAYNE</b>													
4158	3250	9.0	21.0	156	40.0	02-62		1	3	100	PENN SD, PROD (R)		
4181	3150	12.0	12.0		36.0	01-64		10	11	1000	PENN SD, PROD (B)		*ESTIMATED; +INCL BOTH PAYS
	3350	14.0			38.0	01-64		7	6	1000			**THRU 1975
*4101	3200	10.0	22.0	150	37.0	08-46	03-66	12	12	640	PRODUCED (B)		*INCL 4102
*4102	3350	3.6			37.0	08-46	03-66	11	5	640	PRODUCED (R)		*INCL WITH 4101
<b>ADEN S, HAMILTON</b>													
*1521	3245	21.0				03-64	04-70	4	10	150	PENN SD, PROD (R)		
	3335	10.0						4	10	150			
	3390	8.0						2	2	80			
<b>AKIN, FRANKLIN</b>													
*1310	3100	20.0				02-60	12-62	2	5	120	CYPRESS (R)		*NO W.F.OIL RECOVERED
1311	3120	20.0	20.5	175	38.0	10-61		3	11	150	PENN SD, PROD (R)		*INJ. CURTAILED 9-76
*1317	2840	15.0	13.0	90	34.0	05-62	12-76	2	6	80	PENN SD, PROD (R)		*ESTIMATED SINCE 1968
1321	3100	16.0			38.0	08-65		1	4	60	PENN SD, PROD (R)		*ESTIMATED
1327	3060	14.7			37.0	01-66		3	3	100	PENN SD, PROD (R)		*ESTIMATED; +SWD SINCE 1971
<b>ALBION C, EDWARDS, WHITE</b>													
1001	2075	18.0	20.0	200	33.4	12-55		2	7	110	PRODUCED (B)		*ESTIMATED
*1011	2080	9.2	16.8	384	32.3	04-51	01-72	2	7	120	PRODUCED (B)		
1002	1550	12.0				01-72		1	1	30	PRODUCED (B)		*ESTIMATED
	2380	12.0				01-72		1	2	40			
	3150	10.0				07-51		1	4	80			
1020	2055	8.0				6-56		+	3+	30+			*EST. +ADJ. TO PROJ 1006 SINCE 56
*4201	2850	12.0	18.0		37.0	10-52	12-58	4	21	250	RIVER, PROD (M)		
*4202	2460	6.0	18.0		37.0	10-52	12-58	4	5	100	RIVER, PROD (M)		
*1014	3222	4.0	16.3	898	39.0	05-43	12-56	1	7	80	PRODUCED (R)		
*1038	3110	10.0				01-57	01-74	1	6	70	PRODUCED (B)		*EST +INCL PRIM SINCE 1-57
*1015	3005	21.0				04-52	07-55	1	1	30	HARDINSBURG (R)		*EST. +INCL PRIM 52-55
1006	1850	16.2	18.0	150	32.2	01-55		11	8	403	GRAVEL, PROD (M)		
1026	2990	8.0				06-62		1	1	30	PRODUCED (B)		*EST; OP SUSPENDED 1970-72
4200	1900	21.2	20.2	265	38.0	06-48		3	5	170	RIVER, PROD (M)		
4308	2930	19.0				02-68		5	11	160	SHALLOW SD, PROD (M)		
	3160	18.0						4	10	160			
1005	3050	25.0	15.0	25	41.0	03-68		4	5	90	PURCHASED (F)		
1035	3010	18.3				10-66		4	3	70	CITY WATER (F)		
*1000	1900	30.0	19.3	303	35.8	09-50	01-72	2	5	50	RIVER, PROD (M)		
*1018	3000	14.3	18.0	13	37.5	11-59	12-67	6	5	340	PENN SD, PROD (R)		
4321	2434	10.0			33.0	06-69		1	1	40	PRODUCED (B)		*ESTIMATED SINCE 1976
	2932	10.0				11-69		1	2	30			
4434	2770	15.0				11-71		1	1	20	PRODUCED (R)		*ESTIMATED SINCE 1976
	2950	15.0						2	4	60			
	3060	18.0						1	1	20			
1012	3230	8.0				11-66		1	1	30	PRODUCED (R)		*EST +INCL PRIM PROD
1033	3025	15.0	17.3	35	39.0	02-66		7	10	200	PENN SD, PROD (B)		*ESTIMATED SINCE 1973
	3060	13.0						3	9	120			
1037	3000	8.0	15.0	13	36.0	02-72		4	4	100	PENN SAND (B)		*ESTIMATED
1003	2025	12.3	18.5	807	36.0	01-55		4	9	222	SH SD, PROD (M)		
1004	1630	10.0	20.6	53	37.0	01-67		2	5	90	GRAVEL BED, PROD (M)		*INCL ALL PAYS
	1870	12.2	20.2			08-56		2	3	257			
	2050	15.8	18.2	338		08-56		1	1	80			
	2400	19.2				06-60	01-72	2	4	60			
	3050	20.6				08-56	01-67	7	8	170			
1032	2356	6.0	19.0	480	34.0	12-65		1	3	70	SH SD (F)		*INCL ALL PAYS
	2919	6.0	14.6	10		06-68		1	3	100			*INJ TEMP ABD 1-68 TO 4-77
	3040	5.0	15.8	53		01-68		3	2	50			
	3068	8.0	14.2	3003		01-68		1	9	200	PRODUCED (B)		
1036	2400	8.5	19.2	209	38.0	10-65		1	3	40	SH SD (F)		
*1030	2370	20.0			39.0	11-63	12-66	1	4	40	PRODUCED (B)		*SWD ONLY
1039	2970	8.0	13.0	22		11-69		1	1	30	PRODUCED (R)		*ESTIMATED
	3041	18.0	16.7	153				1	2	40			
	3110	33.0	15.0	205				1	1	30			
*4353	2850	12.0	17.0	50	38.0	05-62	01-71	4	5	225	BIEM, PROD. (B)		*ESTIMATED SINCE 1968
1031	2250	11.2	20.6	167	36.0	10-65		3	6	88	GRAV, PROD (M)		
<b>ALBION EAST, EDWARDS</b>													
1040	2770	15.0				09-72		1	2	40	PENN SAND, PROD (M)		*ESTIMATED
	2890	10.0						3	8	160			
	3070	8.0						2	8	220			
<b>ALLENDALE, LAWRENCE, WABASH</b>													
3969	1600	15.0	14.2	335	33.0	10-60		2	8	100	PRODUCED (R)		
3902	1472	10.0	17.0		35.0	12-65		1	1	10	SH SD, PROD (M)		*ESTIMATED SINCE 1976
*3865	1948	30.0	18.7	77	36.4	02-65	01-72	1	1	20	SH SD, PROD (M)		*NO DATA 1966-69; INACTIVE 70-71
*3848	1520	7.0				7-64	12-76	4	6	100	PRODUCED (R)		*EST. +NO DATA RECEIVED
*3847	2020	13.0				7-53	6-59	4	5	90	FRESH & PROD. (M)		*EST. +NO DATA RECEIVED
*3971	2020	15.0				01-58	04-63	2	2	40	GRAVEL BED (F)		*ESTIMATED; +INCL WITH 3906
*3990	2000	20.0	16.0	128	39.0	11-59	09-68	1	1	40	GRAVEL BED, PROD (M)		
*3900	1485	15.0	24.6	1066	32.5	11-54	09-68	5	3	35	SH SD, PROD (M)		
*3869	1575	8.0	17.0	40	36.0	05-65	01-70	1	1	10	SH SD (F)		
3899	1120	8.0	15.0	150	34.0	11-70		1	1	20	WELL (F)		*ESTIMATED
*3906	1375	15.0	17.0	150	36.0	01-58	1-75	8	10	120	SH SD, PROD (M)		*ESTIMATED; +INCL 3971
*3944	1520	15.0			28.4	11-53	06-57	5	7	147	PRODUCED (B)		
*3992	1450	9.0			37.0	07-59	10-66	1	2	60	SH SD, PROD (M)		*INCL WITH 3964
3898	1388	12.0				10-61	01-72	1	1	10	SH SD, PROD (M)		*ESTIMATED; +INCL BOTH PAYS
	1920	18.0				07-62		1	1	20			
	1380	18.0	18.0			06-60		2	3	18	SH SD, PROD (M)		*INCL BOTH PAYS
	1920	10.0				09-61		2	4	18			
*3999	1553	11.0				07-62	10-64	1	1	20	SH SD, PROD (M)		
*3952	1520	20.0	18.0	450	33.0	11-54	01-60	1	3	40	SH WELL (F)		
3905	1465	15.0	17.7	390	35.7	06-55		21	1A	307	GRAVEL BED (F)		*ESTIMATED



TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
ALLENDALE, LAWRENCE, WABASH CONTINUED											
	3905	HERMAN LOEB		JOROAN							
	3871	O. LOEFFLER ESTATE.	FRIENOSVILLE EAST U.	RIEHL	18,19-1N-12WJ 13,24-1N-13W 16-1N-12W	265*	1764*	9.8*	3R2*	265*	1313*
	3883	O. LOEFFLER ESTATE.	G.D. ADAMS COOP	CYPRESS BETHEL		80*	674*	3.6*	69*	80*	512*
	3901	O. LOEFFLER ESTATE.	CLARK, BARTH, PINNICK	TAR SPRINGS	25,36-2N-12W	15*	248*	0.9*	21*	15*	133*
	3951	O. LOEFFLER ESTATE.	ALLENDALE WEST U	RIEHL	8-1N-12W	15*	5200*	0.8*	527*	15*	3509*
	3996	O. LOEFFLER ESTATE.	SPARKS-PETER UNIT	RIEHL	36-2N-12W	106*	1202*	1.3*	77*	107*	1240*
	3909	R & G CORP.	ALLENDALE U	RIEHL	3-1N-12W	*	5273	1.0*	285*	*	4204
	3911	C.A. ROBINSON	HADOEN	JOROAN							
	*3964	ROYALCO, INC.	ALLENDALE U	RIEHL	6,7-1N-11W		588**		14**		300**
	*3993	ROYALCO, INC.	STILLWELL COURTER U	BETHEL	13-1N-12W		4764		313		1544*
				WALTERSBURG	21,22-1N-12W		1625		341		653
	*3920	SKILES OIL CORP.	YELTON-KERZAN	CYPRESS			*		53		73
	2231	WAYNE SMITH, OP.	SAND BARREN UNIT 1	RIEHL	5-1N-12W						
				RIEHL	26-2N-12W	51	3741	2.9	393	48	3349
	2232	WAYNE SMITH, OP.	SAND BARREN UNIT 2	JOROAN		24	774	8.3	182	15	326
	*3903	WAYNE SMITH, OP.	TAYLOR-WHEATLEY	RIEHL	23,26-2N-12W 7,18-1N-12W		1124		217		909
	*3908	WAYNE SMITH, OP.	SHAW-SMITH-NIGH	JOROAN							
				RIEHL	35-2N-12W		1586		120		1466
	3859	SO. TRIANGLE CO.	STULTZ U	JOROAN							
	*3904	TAMARACK PET.	PATTON C	RIEHL	25-1N-12W	65*	588*	3.5*	87*	65*	405*
	*2201	TRIPLE R OIL CO.	HERSHEY U	CYPRESS	28-1N-12W		644*		90*		147*
	3868	UNIVERSAL OPRING	LITHERLAND-SMITH UNIT	BETHEL	27,34,35-2N-12W		1325*		94*		537*
	*3973	UNIVERSAL OPRING	SOUTH ALLENDALE	RIEHL	5-1N-12W	66	1652	2.2	132	65*	1108*
				RIEHL	15-1N-12W		845		38*		247*
	*3860	ZANETIS OIL PROP	HAKF	CYPRESS	15-1N-12W	10*	151*	0.4*	25*	10*	151*
ASHLEY, WASHINGTON											
	4023	N. A. BALORIOGE	ASHLEY	RENOIST	32,33-2S-1W	145*	3815*	7.7*	24R*	145*	3815*
ASHLEY E, WASHINGTON											
	4022	N. A. BALORIOGE	ASHLEY EAST	RENOIST	25,26-2S-1W	70*	845*	3.1*	53*	70*	845*
ASSUMPTION C, CHRISTIAN											
	104	FEAR AND DUNCAN	ASSUMPTION WFU	LINGLE	17,20-13N-1E	200*	1684*	8.2*	143*	200*	1406*
	100	JUNIPER PETROLEUM C	BENOIST	RENOIST	3,4,9,10-13N-1E	149	8301	7.1	1455	67	3415
	101	JUNIPER PETROLEUM C	DEVONIAN	LINGLE	3,4,9,10,15,16-13N-1E	902	23139	24.5	2063	401	8601
	102	JUNIPER PETROLEUM C	ROSICLARE	SPAR MTN	9,10-13N-1E	155	5063	4.5	1098	199	4889
	105	J. W. RUOY DRUG.	PEABODY-RIDGE	LINGLE	16-13N-1E	82*	1350*	8.3*	158*	82*	847*
BARNHILL, WAYNE, WHITE											
	*4103	ASHLAND O AND H	BARNHILL U	HCCLOSKEY	26,34,35-2S-8E		9137		1235		
	4170	BERNARD POOLSKY	HOZE UNIT	AUX VASES	27,28,34-2S-8E	*	851*	1.7	129	12	488
	4171	BERNARD POOLSKY	CALOWELL UNIT	AUX VASES	34-2S-8E	*	1883*	0.7	93	2	1055
	*4199	SAH TIPPS	HOZE U	AUX VASES	28,33,34-2S-8E		319		38		
	*4129	WAYNE DEV	WALTER	MCCLOSKEY	26-2S-8E		144		21*		119
	*4104	WILLETS AND PAUL	BARNHILL UNIT	AUX VASES	27,28-2S-8E		4090		491		1880
	*4105	WILLETS AND PAUL	BARNHILL UNIT	OHARA	27-2S-8E		53		7		2
BARTELSON, CLINTON											
	402	EO KAPES	M.S. WOODARD, TRUSTEE	CYPRESS	5,8-1N-3W	55*	2671*	2.6*	374*	55*	2920*
	* 400	T. R. KERWIN	RELLE OIL	CYPRESS	4-1N-3W		978		135*		187
	* 401	ROHREN OIL CO.	ROHREN OIL UNIT	CYPRESS	4-1N-3W		3100		639*		1621
BEAUCOUP, WASHINGTON											
	4013	WARRIOR OIL CO.	BEAUCOUP UNIT	CLEAR CREEK	9,10-2S-2W	69	1243	1.0	16	27	677
BEAUCOUP S, WASHINGTON											
	4005	SHELL OIL CO.	BEAUCOUP S. UNIT	RENOIST	33,34-2S-2W	465	9629	10.5	425	581	8175
	4008	GEORGE THOMPSON	GILBERT	RENOIST	34-2S-2W	8*	155*	0.4**	40**	8*	155*
BEAVER CREEK, BONO, CLINTON											
	* 1	T. M. CONREY, JR	WRONE C	RENOIST	36-4N-3W		106		23		
	2	W. C. MCBRIDE	JACOBS	RENOIST	31-4N-2W	30	319	1.0	17	30	309
BEAVER CREEK S, BONO, CLINTON											
	415	NICK BARARE	HORO	RENOIST	5-3N-2W	*	*	0.5*	20*		
	405	T. M. CONREY, JR	R-K-R-S	RENOIST	12,13,14-3N-3W	150*	2227*	7.6*	279*	150*	2181*
BELLAIR, CRAWFORD, JASPER											
	600	BELLAIR OIL	BELLAIR	PENNSYLVNIN	2,11,12-6N-14W	120*	31933*	4.5*	898*	120*	7615**
	601	BELLAIR OIL	FULTON (BELLAIR)	PENNSYLVNIN	1,2,11,12-8N-14W	400*	62020*	15.2*	1617*	400*	34302*
	* 666	WAUSAU PET. CORP	GRANT	CYPRESS	13-8N-14W		1343		161		380
BELLE PRAIRIE, HAMILTON											
	1577	CARL BUSBY	HLBK, SHPRD, LEACH, BONA	MCCLOSKEY	1,2,11-4S-8E	60*	500*	11.0**	115**	60*	500*
BEMAN, LAWRENCE											
	*2248	E. L. WHITHER	DECATUR INVESTMENT	STE GEN	23,24-3N-11W		683		40		400
	2287	ZANETIS OIL PROP	ALEXANDER	STE GEN	23-3N-11W	57	492	1.8	21	57*	459*
BENTON, FRANKLIN											
	1300	SHELL OIL CO.	BENTON U	TAR SPRINGS	23,24,25,26,35,36-6S- 2E1 18,30,31-6S-3E	884	2201R6	26.5	19545	1142	163121
	1314	SHELL OIL CO.	SHELL-BENTON DEEP	AUX VASES OHARA MCCLOSKEY	25,36-6S-2E	249	9253	17.5	1634	256	5223
BENTON N, FRANKLIN											
	*1328	FARRAR OIL CO.	BENTON NORTH UNIT	BETHEL AUX VASES OHARA MCCLOSKEY	25,35,36-5S-2E		3458		740		1855
	1332	H & W OIL CO	BENTON NORTH	PAINT CREEK	34-5S-2E	35*	1241*	1.6*	113*	35*	700*

## in Illinois, 1977--continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
ALLEDALE, LAWRENCE, WABASH CONTINUED													
3905	1495	13.0	14.9	100									
3871	1520	20.0	15.0	200	35.0	06-64		3	8	100	SH SD (F)		*ESTIMATED SINCE 1972
3883	1996	10.0			37.0	05-64		1	3	40	SH SD, PROD (M)		*ESTIMATED SINCE 1972
	2110	10.0						1	3	40			
3901	1500	10.0	16.0	40	33.0	08-66		1	2	30	SH WELL (F)		*ESTIMATED SINCE 1972
3951	1500	20.0	17.8	450	35.0	03-58		4	3	80	SH SD, PROD (M)		*ESTIMATED SINCE 1972
3996	1375	15.0	16.0	200	37.0	10-62		3	3	50	SH SD, PROD (M)		*ESTIMATED
3909	1500	18.0	15.0	1400	34.0	09-53		*	3	40	TAR SPGS, PROD (H)		*INJ IN LINE WELLS +EST
	1538	14.0											
3911	1450	20.0	18.0			10-66		3	6	153	SH SD (F)		*EST. +OP, SUSP, 1970, NO DATA
*3964	2120	20.0	20.1	115	36.5	07-59	12-69	10	14	180	PRODUCED (B)		*INCL 3992
*3993	1500	11.0	18.6	45	33.4	01-62	11-68	1	1	30	RIVER, PROD (M)		
	2000	10.0			36.9			5	10	180			
*3920	1600	15.0	18.0		35.5	06-66	12-70	*	2	20			*ANJ TO ACTIVE WF
2231	1300	18.0			34.0	09-57		10	7	75	SURFACE, PROD (M)		
	1340	8.0											
2232	1280	20.0			33.0	06-58		3	10	65	SURFACE, PROD (M)		
*3903	1400	15.0				06-57	12-66	4	6	50	RIVER GRAV, PROD (M)		
	1440	8.0											
*3908	1380	15.0			34.0	09-57	01-72	2	6	45	SURFACE, PROD (M)		
	1420	8.0											
3859	1450	10.0	17.0	150	32.5	01-69		2	2	60	SH GRAVEL (F)		*ESTIMATED
*3904	1800	16.0			34.8	01-54	12-60	4	7	130	RIVER GRAV, PROD (M)		*ESTIMATED
*2201	2010	12.0			37.0	01-67	07-74	7	8	150	PENN SD, PROD (R)		*ESTIMATED SINCE 1968
3868	1500	15.0			37.0	04-65		2	4	60	PENN SD, PROD (B)		*ESTIMATED
*3973	1480	13.0	15.0	160	32.9	03-61	09-67	6	3	60	SH SD, PROD (M)		*INCL PRIM PROD SINCE 1961
													*EST FOR 1964-66
*3860	2039	7.0			36.2	06-68	12-77	2	2	30	PRODUCED (B)		*ESTIMATED SINCE 1976
ASHLEY, WASHINGTON													
4023	1440	7.0				11-56		4	14	180	PRODUCED (R)		*ESTIMATED
ASHLEY E, WASHINGTON													
4022	1650	8.0				07-69		2	4	60	PRODUCED (R)		*ESTIMATED
ASSUMPTION C, CHRISTIAN													
104	2329	20.0			40.0	06-66		2	8	200	PRODUCED (H)		*ESTIMATED SINCE 1970
100	1050	13.0	19.0	100	38.0	07-50		3	8	350	PRODUCED (R)		
101	2300	13.0	12.0	50	40.0	05-55		14	22	600	PRODUCED (R)		
102	1150	12.0	22.0	561	39.3	06-55		2	3	240	PRODUCED (B)		
105	2290	15.0			42.3	11-67		6	8	280	PRODUCED (B)		*ESTIMATED SINCE 1976
BARNHILL, WAYNE, WHITE													
*4103	3350	9.0			39.0	01-51	03-63	10	22	260	CYPRESS (R)		
*4170	3300	14.0			38.2	10-63		4	4	120	PENN SD (R)		*TEMP SHUT-DOWN 3-72
*4171	3560	15.0			36.9	10-63		5	4	140	PENN SD (R)		*INJ. CURTAILED 10-73
*4199	3328	25.0				11-63	12-70	2	4	70	PENN SD, PROD (R)		
*4129	3450	18.0				12-50	01-55	1	2	40	CYPRESS (R)		*INCL PRIM PROD
*4104	3250	14.0	18.7	42	38.0	10-56	12-66	12	10	230	PENN SD, PROD (R)		
*4105	3323	8.0	20.1	108	39.0	10-56	12-59	2	6	40	PENN SD, PROD (R)		
BARTELSD, CLINTON													
402	970	18.0	21.0	210	38.0	01-54		5	3	80	PRODUCED (B)		*ESTIMATED
* 400	970	15.0	22.2	165	37.0	04-52	01-63*	5	5	40	TAR SPRINGS (R)		*ESTIMATED
* 401	980	12.0	20.0	110	36.9	11-53	01-63*	12	19	200	BETHEL, PROD (B)		*ESTIMATED
BEAUCOUP, WASHINGTON													
4013	3046	5.2	12.0	115	38.0	10-70		3	2	280	PENN SD (M)		
BEAUCOUP S, WASHINGTON													
4005	1440	6.0	19.0	240	36.0	11-60		7	10	230	PENN SD, PROD (R)		
4008	1445	6.0	17.5	111	36.0	01-55		1	1	27	PRODUCED (B)		*EST SINCE 1970 +INCL PRIM PROD
BEAVER CREEK, BOND, CLINTON													
* 1	1140	8.0	20.7	208	37.4	07-53	12-61	1	4	40	PROD (B)		
2	1100	10.0	20.0	110		06-68		1	1	20	PRODUCED (B)		
BEAVER CREEK S, BOND, CLINTON													
415	1180	12.0			33.0	08-69		1	4	40	CYPRESS, PENN (B)		*ESTIMATED; +DUMP FLOOD
405	1110	8.0			34.0	01-56		3	11	140	PRODUCED (B)		*ESTIMATED
BELLAIR, CRAWFORD, JASPER													
600	600	38.0	17.1	148	34.0	07-48		56	50	204	SH SD, PROD (M)		*ESTIMATED +SINCE 1-64
601	560	21.0	19.0	149	32.0	07-48		35	69	443	GRAV, PROD (M)		*ESTIMATED
* 666	950	16.0	17.2	125	39.0	02-53	02-61	15	11	70	PENN SD, PROD (M)		
BELLE PRAIRIE, HAMILTON													
1577	3400	7.0				03-68		1	8	160	PRODUCED (R)		*EST. +INCL. PRIM SINCE 70
BEMAN, LAWRENCE													
*2248	1850	10.0				09-63	10-67	4	7	200	PRODUCED (B)		
2287	1850	5.0				10-68		2	2	80	PRODUCED (B)		*ESTIMATED
BENTON, FRANKLIN													
1300	2100	35.0	19.0	165	37.5	11-49		88	33	2200	LAKE, PROD (M)		
1314	2760	17.0	18.2		39.0	05-62		9	7	550	CYPRESS, PROD (M)		
	2810	7.0						5	7	320			
	2890	12.0						3	6	320			
BENTON N, FRANKLIN													
*1328	2550	8.0				02-66	04-71	6	9	140	DEGONIA, PROD (R)		
	2660	12.0						6	9	140			
	2730	5.0						4	4	90			
	2800	8.0						3	4	140			
1332	2550	12.0			39.6	06-69		4	4	100	PRODUCED (R)		*ESTIMATED SINCE 1973

TABLE 11. Waterflood operations

Field, County Project no. * = ABD. + = P. M.	General information				Production and injection statistics (M bbl)					
	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
					Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
BENTON N, FRANKLIN CONTINUED										
*1326 SHAKESPEARE OIL	NORTH BENTON UNIT	PAINT CREEK	1-6S-2E OHARA SPAR MTN		20*	3673*	0,8*	466*	20*	1456*
BERRYVILLE C, EDWARDS, WABASH										
*3942 PHILLIPS PET. CO	TARPLEY C	MCCLOSKEY	2-1N-14W			35				103
*3943 PHILLIPS PET. CO	TOWNSEND	MCCLOSKEY	35-2N-14W			50				86
1024 RK PET. CORP.	W SALEM WFU	SPAR MTN	9-1N-14W		105	1544	6,2	402	50	551
BLACKLAND, CHRISTIAN, MACON										
*2300 FEAR AND DUNCAN	DAMEERY C	SILURIAN	5-15N-1E			6				4
BONE GAP C, EDWARDS										
*1013 R. G. CANTRELL	BONE GAP UNIT	WALTERSBURG	18-1S-14W		140*	2843*	7,2*	577*	140*	2843*
1034 BERNARD POOLSKY	BONE GAP SOUTH U	CYPRESS	19-1S-14W		31	445	6,5	27	34	130
BOULDER, CLINTON										
* 411 TEXACO, INC.	BOULDER BENOIST SD U	BENOIST	2-2N-2W, 35, 36-3N-2W			9234		681		4368
BOURBON C, DOUGLAS										
* 800 T. J. LOGUE	BOURBON POOL WF	SPAR MTN	2, 11, 12-15N-7E			6000*		500*		
BOYD, JEFFERSON										
2000 N. A. BALORIDGE	BOYD FIELD UNIT	BENOIST	18, 19, 20, 29, 30-1S-2E		270*	58269*	8,6*	4320*	170*	46799*
		AUX VASES	13, 24, 25-1S-1E			18628*				
BROWN, MARION										
2615 DONALD G. GEARY	LEONARD-LANCASTER	CYPRESS	16-1N-1E		30*	528*	1,7*	41*	30*	470*
BROWNS, EDWARDS, WABASH										
3850 ROYALCO, INC.	SCHONAMAN WF	OHARA	3, 10-2S-14W		95*	661*	20,6*	221*	45*	166*
1021 SUPERIOR OIL CO.	BROWNS U CYP-BETHEL	CYPRESS	28, 33-1S-14W		5	2558	1,9	428	5	742
		BETHEL				1141*				
3894 TARTAN OIL CO.	BROWNS U	TAR SPRINGS	33-1S-14W		110*	1272*	5,7*	75*	110*	891*
		CYPRESS								
BROWNS E, WABASH										
*3912 T. W. GEORGE EST.	BELLMONT WF ASSOC	CYPRESS	1, 2, 11, 12-2S-14W			3009		905*		1122
*3914 T. W. GEORGE EST.	SOUTH BELLMONT	CYPRESS	11, 14-2S-14W			276		18		22
3950 T. W. GEORGE EST.	MORRIS-BELLMONT	CYPRESS	11-2S-14W		50	979	4,4	137	43	336
*3913 MOBIL OIL CORP.	BELLMONT	CYPRESS	2, 11-2S-14W			822*		582		268
BUNGAY C, HAMILTON										
*1554 ALENE BLADES	HAYES	AUX VASES	15-4S-7E			488		41		180
1574 C. E. BREHM	BUNGAY	AUX VASES	15, 16-4S-7E		75*	6215*	6,4*	698*	75*	6215*
1550 COLLINS BROS.	SOUTH HUNGAY UNIT	RENAULT	34, 35-4S-7E		220*	5129*	7,2*	332*	220*	3463*
1558 COLLINS BROS.	NORTH HUNGAY	RENAULT	13, 14, 23, 24-4S-7E		100*	5905*	3,5*	506*	100*	3348*
		AUX VASES								
1572 COLLINS BROS.	O'NEILL	AUX VASES	17-4S-7E		200*	1360*	10,8**	146**	200*	1360*
1576 WALTER DUNCAN	WALKER	AUX VASES	16-4S-7E		33*	1293*	1,7*	94*	33*	1293*
1555 EXXON	HUNGAY A V UNIT	AUX VASES	14-4S-7E		5	1172	3,1	373	15	371
1527 FEAR AND DUNCAN	O'DELL	RENAULT	16-4S-7E		94*	814*	8,4*	145*	94*	786*
*1519 MID-STATES OIL PROP	HUNGAY U WF	AUX VASES	21-4S-7E			710*		74*		198*
*1522 R. REBER	HUNGAY 1-A	AUX VASES	26, 27, 34, 35-4S-7E			11011**		857**		8487**
*1500 TEXACO, INC.	BLAIRSVILLE U	AUX VASES	16, 17, 20, 21-4S-7E			7692		699		2457
*1530 TEXACO, INC.	J.A. LYNCH	AUX VASES	16-4S-7E			1921		75		707
CALHOUN C, RICHLAND, WAYNE										
*3400 ASHLAND O AND R	CALHOUN	MCCLOSKEY	7, 18-2N-10E, 13-2N-9E			3032		157		
*3401 SAM TIPPS	BOHLANDER UNIT	MCCLOSKEY	6, 7-2N-10E			2175*		235*		1681*
*3447 UNION OIL CALIF.	CALHOUN	MCCLOSKEY	12, 13, 24-2N-9E			6000*		405*		6000*
CALHOUN E, RICHLAND										
*3423 ALVA C. DAVIS	SLUNAKER	MCCLOSKEY	7-2S-11E			93*		1*		4*
CALHOUN S, EDWARDS, RICHLAND, WAYNE										
4086 ZANETIS OIL PROP	RUTGER	MCCLOSKEY	1, 2-1N-9E		49	226	16,3	146	49*	226*
CARLYLE N, CLINTON										
407 T. M. CONREY, JR	KREITEMEYER	BENOIST	23-3N-3W		72*	1010*	4,4*	95*	72*	433*
CARM, WHITE										
4402 ROYAL O AND G	NIEKAMP	MCCLOSKEY	26-5S-9E		30*	300*	2,3*	78*	30*	204*
CARM, WHITE										
4443 NICK BABARE	GATES-REHSTOCK	AUX VASES	3, 4-5S-9E		18*	990*	2,0*	74**	18*	750*
CASEY, CLARK										
* 217 CALVAN AMERICAN	SHAWVER	CASEY	23, 24-10N-14W			49				
* 201 FOREST OIL CO.	CASEY	CASEY	14, 15, 23-10N-14W			8030		462		
* 202 D. W. FRANCHOT	N. CASEY	CASEY	33, 34-11N-14W			3032		38		
			4, 5-10N-14W							
CENTERVILLE, WHITE										
4409 ABSHER OIL CO	BROWN UNIT	OHARA	2-4S-9E		14*	416*	0,7*	13*	14*	154*
*4267 D. B. LESH	CENTERVILLE E	SPAR MTN	12-4S-9E					4*		4
CENTERVILLE E, WHITE										
4203 ABSHER OIL CO	E. CENTERVILLE UNIT	TAR SPRINGS	18-4S-10E		190*	10148*	7,2*	1018*	190*	8115*
		CYPRESS								
		BETHEL								
		AUX VASES								
4379 ABSHER OIL CO	EAST CENTERVILLE UNIT	TAR SPRINGS	7, 8, 17-4S-10E		600*	24850*	29,7*	2241*	600*	14025*
		WADONSBURG								
		CYPRESS								
		BETHEL								
		AUX VASES								

## in Illinois, 1977—continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
BENTON N, FRANKLIN													
CONTINUED													
*1326	2590	9.2	15.0	22	36.0	12-66	12-77	5	13	180	PENN SD (R)		*ESTIMATED 1976-77
	2755	6.0	12.0					1	3	80			
	2800	6.0						1	1	40			
BERRYVILLE C, EDWARDS, WABASH													
*3942	2890	10.0				09-52	01-53	1	2	14	TAR SPGS, PROD (H)		
*3943	2890	10.0				02-52	06-53	1	2	27	TAR SPGS, PROD (H)		
1024	2990	10.0				01-70		2	2	200	SUPPLY WELL (M)		
BLACKLAND, CHRISTIAN, MACON													
*2300	1920	10.0			37.0	10-63	12-63	1	2	80	AUX VASES (H)		
BONE GAP C, EDWARDS													
*1013	2310	20.0	18.0	120	34.6	06-52		1	10	120	PRODUCED (H)		*ESTIMATED SINCE 1973
1034	2320	10.0	17.3			02-64		1	2	100	PRODUCED (H)		
BOULDER, CLINTON													
* 411	1200	25.0	17.9	104	34.6	09-60	10-64	25	17	470	PROD (H)		
BOURBON C, DOUGLAS													
* 800	1600	12.0			34.0	09-59	11-66	18*	30*	800*	PRODUCED (H)		*DATA WERE ESTIMATED
BOYO, JEFFERSON													
2000	2065	17.3	17.5	173	39.5	06-55		2	8	1564	PRODUCED (H)		*DATA FOR 1955-76, EST SINCE 70;
	2130	11.9	21.4	24	34.8	03-55		5	10	569			*INCL 40TH PAYS
BROWN, MARION													
2615	1650	10.0			33.0	07-60		1	3	40	PRODUCED (H)		*ESTIMATED SINCE 1972
BROWNS, EDWARDS, WABASH													
3850	3022	8.0			35.4	11-66		2	4	380	SH SD (F)		*ESTIMATED SINCE 1976
1021	2640	8.2	16.8	106	34.8	11-59		5	9	190	PRODUCED (H)		*INJECTION STOPPED MARCH, 1975
	2780	6.5	17.5	5	36.8			3	4	120			
3894	2300	10.0	16.0			11-62		2	2	60	PRODUCED (H)		*ESTIMATED
	2600	15.0	17.0					11	7	180			
BROWNS E, WABASH													
*3912	2570	13.0				01-51	01-57	18	18	290	SH SD, PROD (M)		*INCL PRIM PROD
*3914	2560	8.0			37.0	04-56	09-74	1	2	75	PENN SD, PROD (R)		
3950	2580	7.0	16.0		35.0	08-67		6	5	139	GRAV RED (F)		
*3913	2570	11.0			35.0	11-67	07-63	6	8	169	TAR SPGS, PROD (H)		*NO INT SINCE 12-58
BUNGAY C, HAMILTON													
*1554	3275	13.5	21.8	104	34.0	09-65	12-70	2	4	60	SH SD, PROD (M)		SND ONLY
1574	3270	12.0				11-64		2	25	270	PRODUCED (R)		*ESTIMATED
1550	3280	6.0	12.0	244	38.5	08-64		7	7	300	PENN SD, PROD (H)		*ESTIMATED SINCE 1973
1558	3280	8.0	18.9	325	39.0	09-65		4	5	100	PENN SD (R)		*ESTIMATED SINCE 1973
	3300	10.0	20.0	100				6	5	120			
1572	3260	15.0				01-55		1	7	90	PRODUCED		*EST+INCL PRIM PROD
1576	3260	15.0				07-67		1	3	40	PRODUCED (R)		*ESTIMATED
1555	3275	12.0	20.6	312	34.6	05-69		3	4	220	PRODUCED (R)		
1527	3254	12.0	14.0	350	38.0	01-67		1	4	60	PRODUCED (H)		*ESTIMATED SINCE 1970
*1519	3331	15.0	20.0	80	39.1	09-66	04-73	3	5	90	SH SD, PROD (M)		*ESTIMATED 1971-73
*1522	3300	17.0	22.0	182	41.0	05-61	1-76	8	5	390	CYPRESS, PROD (R)		*ESTIMATED; *NO DATA 1975-76
*1500	3330	15.5	19.6	92	37.0	06-64	07-64	10	12	640	PENN, PROD (H)		
*1530	3300	25.0	17.8	107	37.0	09-61	10-68	5	5	130	PENN SD, PROD (R)		
CALHOUN C, RICHLAND, WAYNE													
*3400	3150	6.0			37.0	09-51	08-64	3	8	280	CYPRESS (R)		
*3401	3130	10.0	11.2	67	39.0	06-50	12-66	3	10	220	PRODUCED (H)		*NO DATA 1959-1966
*3447	3175	20.0				01-49	12-64	8	13	570	PRODUCED AND CYPRESS		*ESTIMATED
CALHOUN E, RICHLAND													
*3423	3268	10.0			37.2	08-65	12-71	2	3	100	TAR SPR, PROD (R)		*INACTIVE 1966-71
CALHOUN S, EDWARDS, RICHLAND, WAYNE													
4086	3250	23.0			39.0	08-66		1	4	80	PRODUCED (H)		*ESTIMATED
CARLYLE N, CLINTON													
407	1142	7.0			34.0	06-55		1	7	80	PRODUCED (H)		*ESTIMATED
CARM, WHITE													
4402	3143	8.0			30.0	09-65		1	2	60	PENN SD, PROD (R)		*ESTIMATED SINCE 1975
CARM N, WHITE													
4443	3230	13.0				6-59		1	4	80	PENN & PROD (R)		*ESTIMATED; *INCL PRIM SINCE 1959
CASEY, CLARK													
* 217	450	21.5	22.4	108	31.8	08-53	08-54	9	4	40	SH SD (F)		
* 201	450	10.0			31.9	03-50	03-61	76	66	280	GRAV RED AND PROD (M)		
* 202	290	20.0	21.5	400	28.0	12-53	12-68	15	12	40	SH SD, PROD (M)		
ENTERVILLE, WHITE													
4409	3360	13.0			37.0	12-65		1	1	20	PENN SD (R)		*ESTIMATED
*4267	3366	7.0			43.0	06-54	12-55	1	1	20	TAR SPRINGS (R)		*INCL PRIMARY SINCE 6-54
ENTERVILLE E, WHITE													
4203	2470	17.0	14.0	97		03-56		5	8	130	PALESTINE, PROD (R)		*ESTIMATED SINCE 1973
	2850	17.0	15.0	12				8	9	190			
	2960	17.0	14.0	8				4	4	80			
	3060	20.0	20.0	45				4	7	110			
4379	2460	37.0	15.7		36.6	01-63		22*	17*	420*	SH SD, PROD (M)		*ESTIMATED; *INCL 4246 WELLS AND ACREAGE
	2632	10.0						1	1	10			
	2850	35.0	14.4					16	16	340			
	2980	18.0	14.1					15	16	330			
	3080	19.6	19.6	109				18	15	350			



TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
CENTERVILLE E, WHITE CONTINUED											
4379	ABSHER OIL CO			MCCLOSKEY							
4394	ABSHER OIL CO	JONES-BAIRO		CYPRESS	7-4S-10E	33*	1274*	1,6*	136*	33*	1149*
4376	NICK BARARE	JONES ESTATE		TAR SPRINGS	7-4S-10E	38*	1199*	2,9*	179*	38*	327*
*4246	SUN OIL CO.	E, CENTERVILLE		TAR SPRINGS	7-4S-10E		269		39		132
CENTRAL CITY, MARION											
2623	WILLIAM PFEFFER	PFEFFER U	PENNSYLVNIN		8-1N-1E	34*	339*	1,7*	26*	34*	339*
CENTRALIA, CLINTON, MARION											
419	KARCHMER PIPE	KARCHMER-TRENTON	TRENTON		1,2-1N-1W,26,27,34,35 36-2N-1W 35-2N-1W	50	3722	31,1	486	50*	1722
* 403	W. O. MORGAN	CENTRALIA FIELD	BENOIST		1-1N-1W		880*		98*		880*
420	HUBERT ROSE	BUENHLER COMM	OEVOINIAN		1-1N-1W	655	13714*	22,8*	216*	655	13714*
412	FRED SEIP	ROTHMEYER, HUEMLER, COE	CYPRESS		13-1N-1W	20*	1127*	1,2*	71*	20*	1285*
416	FRED SEIP	HEFTER HRS	BENOIST		13-1N-1W	90*	798*	5,0*	68*	90*	1681*
404	SHELL OIL CO.	CENTRALIA U	CYPRESS		1,2,12-1N-1W, 35,36-2N-1W	1759	23460	31,1	11149	1201	105323
			BENOIST								
* 408	SOHIO PETROLEUM	COPPLE TRENTON	TRENTON		35-2N-1W		236		34		21
CHESTERVILLE E, DOUGLAS											
* 801	ROYALCO, INC.	ARCOLA UNIT	SPAR MTN		5,6-14N-8E, 31-15N-8E		6471		1130		1977
CLARKSBURG, SHELBY											
*3803	SCHAEFER OIL CO.	CLARKSBURG	BENOIST		8,17-10N-4E		10*		4*		10*
CLAY CITY C, CLAY, JASPER,											
*1900	ASHLAND O AND R	HOOS EAST	MCCLOSKEY		2,3,10-6N-10E		333		16		
*3402	ASHLAND O AND R	NOBLE NORTH	MCCLOSKEY		35-4N-9E		318		8		
1928	ATHENE DEVEL.	ROBERTS&BOWERS	MCCLOSKEY		5-5N-10E	+	+	0,5*	90*		450*
3419	WM. BECKER	WAKEFIELD-HARRELL U	CYPRESS		24-4N-9E	55*	2613*	3,0*	414*	55*	2130*
* 362	C. E. HOOTH	STANFORD	AUX VASES		4-2N-7E		175		35		70
381	C. E. HOOTH	MURO & PETTITJONH	AUX VASES		15,16-2N-7E	50*	515*	2,5*	31*	50*	510*
1915	C. E. HOOTH	OELLA HARVEY	SPAR MTN		12-5N-9E	37*	933*	2,0*	91*	37*	379*
3405	C. E. HOOTH	S, NOBLE CONSLO	MCCLOSKEY		30,31-3N-9E, 25,36-3N-8E	10*	3997*	0,9*	165*	10*	1627*
					10-11-3N-9E		3464*		251*		1736*
*3403	H. L. BROCKMAN	EAST NOBLE UNIT	SPAR MTN		8,9,16,17-3N-8E		4500*		311*		4000*
* 380	BRUER & ROBINSON	NORTH CLAY CITY	CYPRESS		24,25-1S-6E	130*	745*	6,8*	64*	130*	693*
4064	CARL BUSHY	GSTN, SMS, MNHS, FSL, MCN	AUX VASES		15-1S-8E		212		13		53
*4107	CONTINENTAL OIL	WILSON "B"	SPAR MTN		8,17-1S-8E		581		32		18
*4073	COY OIL CO	EAST GEFF	AUX VASES		27,28-1S-8E	160*	3346*	9,4*	235*	160*	1775*
4147	CULLUM OIL CO.	ROBERTSON-HING-CREWS	AUX VASES		4-6N-10E		141		17		
*1913	OORAN OIL PROP.	BERGHOWER	MCCLOSKEY		33-1S-8E	129	1260	2,8	172		
4082	OUNCAN LSE+ROY	CREWS-SHORT COOP	AUX VASES		33-1S-8E	220	3518	5,9	160		
4092	OUNCAN LSE+ROY	CREWS MIDDLE UNIT	AUX VASES		34-7N-10E, 13-6N-10E	90*	1010*	6,0*	72*	90*	752*
1925	ENERGY RESOURCES	NEWTON EAST	MCCLOSKEY								
			ST LOUIS								
*4109	F AND W OIL CO.	MILLER-LAMBRICH U	OMARA		29-1N-8E		*		144		
			SPAR MTN								
			MCCLOSKEY								
4146	F AND W OIL CO.	MT. ERIE UNIT	AUX VASES		33,34,35-1N-8E	*	8541*	9,5	1078	90+	4989+
4174	FARRAR OIL CO.	MOLT	AUX VASES		29-1N-8E	131+	1239**	6,7+	149**	80+	376**
			MCCLOSKEY								
4156	FRMERS PETR COOP	BEARD, BORAM, WILSON U	AUX VASES		10-1S-8E	12+	806**	2,7*	382*	12+	224*
1927	FINKS OIL CO.	ROUTE 33	MCCLOSKEY		27,28,34-7N-10E	160*	1810*	8,9*	111*	160*	1810*
4175	DONALD W. GESELL	NE GEFF UNIT	AUX VASES		7-1S-8E	13	271*	3,2	49*	13	107*
4173	J. D. GORON	ROTHWELL	MCCLOSKEY		24-2N-7E	70*	694*	3,8**	95**	70*	685*
1906	GLEN GRIFFITH	WILLOW HILL COOP	MCCLOSKEY		6-6N-11E	20*	116**	1,4*	26**	20*	245**
* 317	GULF OIL CO	S, STANFORD U	AUX VASES		8,9,16,17-2N-7E		2805		370		810
*4130	GULF OIL CO	WINONA	MCCLOSKEY		12-1S-8E		25				300
*4094	ILL. LSE, OP.	BLACKBURN	AUX VASES		3-1S-8E		47		6		10
*4141	ILL. LSE, OP.	MILL, THOMPSON, GRSN.	AUX VASES		27-2N-7E		610		36		235
*4197	ILL. LSF, OP.	BORAM	AUX VASES		4-1S-8E		15*		61		99
*4198	ILL. LSE, OP.	J. O. VIRGULAS	OMARA		26-1S-7E		205*		41*		230*
*4184	ILL. MID-CONT.	CREWS-SHORT COOP	AUX VASES		33,34-1S-8E		503*		34*		503*
*4179	JENKINS BROS	NORTH FIRST STREET	AUX VASES		19-1S-8E		337*		69*		181*
*4119	KIRBY PETROLEUM	KIRBY	AUX VASES		16,17-1N-7E		2464		360		391
4057	E. K. LEWIS	OLLIE GROVE	MCCLOSKEY		27-1N-8E	12*	247*	1,1*	48**	12*	247*
4056	OAE V LOVE	AYRES	SPAR MTN		8-1S-7E	+	+	10,3*	65*	50*	300*
4140	OAE V LOVE	BARNARD-HOLMAN-LISTON	AUX VASES		10-1S-7E	10*	610*	1,0*	77*	10*	518*
*3416	MARATHON OIL CO.	NOBLE COOP U	MCCLOSKEY		8-3N-9E		*		*		*
3421	MURVIN OIL CO.	WAKEFIELD POOL U	CYPRESS		24-4N-9E		2966**	2,7*	469*	57*	3204*
*4055	MURVIN OIL CO.	ELM RIVER FLOOD	AUX VASES		32,33-1N-8E		1330**		170**		850**
*4058	MURVIN OIL CO.	BORAM	AUX VASES		33-1N-8E				53*		250*
4060	MURVIN OIL CO.	PIKE	AUX VASES		14-1S-7E	77*	947*	3,7**	47**	77*	947*
* 300	O H AND F OIL CO	N CLAY CITY U	MCCLOSKEY		5,8-3N-8E		319*		154*		836*
372	PARTLOW, COCHNOR	HENDERSON & SKELTON	CYPRESS		17-2N-8E	250*	1275*	19,5*	226*	250*	1300*
			AUX VASES								
			SPAR MTN								
4069	PARTLOW, COCHNOR	MOSELTON & GILL	CYPRESS		20-2N-8E	120*	1110*	6,1*	155*	120*	1160*
			SPAR MTN								
* 301	PHILLIPS PET. CO	MINNIE	SPAR MTN		24-3N-7E		181		79		460
3427	BERNARD POODLSKY	COEN U	AUX VASES		36-5N-9E	10	236	1,4	39	*	*
3449	BERNARD POODLSKY	CLARK-GRUBB-EVANS	CYPRESS		18-3N-9E	60*	710*	9,4*	145*	60*	710*
4087	BERNARD POODLSKY	W JEFFERSONVILLE	AUX VASES		15,16-1S-7E	18	646	1,3	43	17	182
4149	BERNARD POODLSKY	MARSHALL	AUX VASES		16-1S-8E		640*	1,1	263	7	458
4159	BERNARD POODLSKY	NW FAIRFIELD U	OMARA		26,35-1S-7E	48	2674	15,3	338	13	432
4194	BERNARD POODLSKY	GRAY	AUX VASES		16,21-1S-8E	27	1487	3,7	96	11	640
384	E B REYNOLDS EST.	WEILER, EDENS, MOSLEY, DEHART	CYPRESS		33,34-3N-8E		1005**	11,1	279*		1005*
			AUX VASES								
			MCCLOSKEY								
*1901	ROBINSON PROD.	NE MCCLOSKEY U NO 1	MCCLOSKEY		13,14,24-7N-10E		1367		282		328
*1902	ROBINSON PROD.	WILLOW HILL, SE BAR	MCCLOSKEY		23,26-7N-10E		3326		639		1113
4046	ROBINSON PROD.	GILL-BISSEY-SMITH	AUX VASES		24-2N-7E	90	130	17,1	21	90	130
4067	ROBINSON PROD.	NE GEFF-MURPHY	AUX VASES		5,6-1S-8E	167	707	13,8	104	30	145
			OMARA								
4068	ROBINSON PROD.	CARTER U	AUX VASES		28,29,32,33-1N-8E	35	174	5,4	34	2	3
*4084	ROBINSON PROD.	WESLEY FELLER	AUX VASES		7-1N-8E		368		83		408



## in Illinois, 1977--continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
CENTERVILLE E, WHITE CONTINUED													
4379	3225	6.0						1	2	60			
4394	2910	15.0	14.4	109	36.6	10-63		2	2	100	PRODUCED (B)	*ESTIMATEU	
4376	2500	16.0	15.7	21	35.4	09-63		2	2	40	PURCHASED (R)	*ESTIMATEU	
*4246	2530	6.0			36.6	10-50	09-57	*	*	*	PRODUCED (B)	*ACREAGE&WELLS INCL.W/4379	
CENTRAL CITY, MARION													
2623	864	22.0			34.0	10-64		1	5	60	PRODUCED (B)	*ESTIMATEU	
CENTRALIA, CLINTON, MARION													
419	3950	99.9			40.0	11-66		21	32	1080	AUX VASES (R)	*ESTIMATEU	
* 403	1368	10.0			38.0	10-55	01-74	1	3	40	CYPRESS, PROD (R)	*ESTIMATEU	
420	2880	29.0			38.8	06-66		2	4	269	PRODUCED (B)	*ESTIMATEU	
412	1200	10.0		80	34.0	11-60		3	6	45	PRODUCED (R)	*ESTIMATEU SINCE 1970	
416	1360	10.0			35.0	09-70		1	5	100	PRODUCED (B)	*ESTIMATEU SINCE 1975	
404	1200	20.4	20.2	225	34.8	05-56		113	76	1450	PENN. A V. DEV. SOURCE		
	1350	19.6	19.6	186				75	88	1560	CYPRESS, PROD (B)		
* 408	3950	22.0	10.0		39.8	11-51	03-53	2	12	160	DEVONIAN (R)		
CHESTERVILLE E, DOUGLAS													
* 801	1725	10.0	16.0	167	38.0	09-61	08-73	14	24	380	RIVER, PROD (M)		
CLARKSBURG, SHELBY													
*3803	1775	11.0				10-74	10-75	1	2	30	PRODUCED (B)	*ESTIMATEU	
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY													
*1900	2645	8.0			40.0	09-53	04-60	3	3	40	GRAV, PROD (M)		
*3402	3000	5.0			38.0	07-54	04-61	1	1	20	CYPRESS (B)		
1928	3275	25.0				6-66		+	4	80		*EST.+ADJ TO PROJ.1922-SINCE 66	
3419	2540	28.0	18.0	140		07-60		5	5	100	PENN SD, PROD (R)	*ESTIMATEU SINCE 1970	
* 362	2970	10.0			36.0	12-66	04-73	1	1	20	PENN SD, PROD (R)		
381	2960	16.0				11-71		3	5	80	PRODUCED (R)	*ESTIMATEU	
1915	2960	10.0	13.6		35.1	03-62		2	3	50	PENN SD, PROD (R)	*ESTIMATEU SINCE 1968	
3405	2975	5.0	15.0	24		07-57		1	2	448	PRODUCED (B)	*ESTIMATEU SINCE 1970	
*3403	2950	11.0			38.0	05-55	12-71	5	18	260	PRODUCED (R)	*NOT OPERATED 1968-1971	
* 380	2630	15.0				06-58	03-67	3	13	160	SH SD, PROD (M)	*ESTIMATEU	
4064	3090	10.0				1-72		3	7	120	PRODUCED (M)	*ESTIMATEU SINCE 1974	
*4107	3160	10.0				04-55	04-63	1	2	40	CYPRESS, PROD (B)		
*4073	3075	10.0	19.0	30	40.0	01-69	01-72	3	3	100	SH SAND (F)		
4147	3130	12.0			39.0	01-61		4	10	250	PENN SD, PROD (R)	*ESTIMATEU SINCE 1973	
*1913	2850	16.0				10-60	12-64	1	10	240	CYPRESS (R)		
4082	3100	21.0				04-67		2	4	70	PRODUCED (R)		
4092	3110	28.0				08-65		5	4	260	PENN SD, PROD (R)		
1925	2650	15.0				08-70		4	12	280	CYPRESS, PROD (M)	*INACTIVE 1972-73; EST SINCE 74	
	2950	18.0						3	12	280			
*4109	3060	15.0				08-50	01-63	4	4	150	CYPRESS (R)	*DUMP FLOOD, NO RECORD	
	3080	15.0						4	4	150			
	3100	15.0						4	4	150			
4146	3000	11.0	13.0	16	40.2	10-60		6	12	720	SH SD, PROD (M)	*SWD INTO CYP.+EST. SINCE 71	
4174	3121	7.0				08-64		1	3	40	PRODUCED	*ABU 1965-68; +EST. SINCE 1976	
								1	3	40			
4156	3100	14.0			40.0	07-62		2	4	200	PENN SD (R)	*SWD SINCE 12-69; +EST. NO DATA 76	
1927	2950	23.0				06-69		1	8	110	PRODUCED (R)	*ESTIMATEU	
4175	3031	15.0	20.0	27	38.5	02-64		2	2	50	PENN SD, PROD (R)	*TEMP ABU 9-70 TO 1-77	
4173	2990	5.0			37.0	07-63		2	2	20	PRODUCED (R)	*EST.+AFFECTED BY ADJ A.V. FLOOD	
1906	2634	9.0	15.0	24		06-57		1	1	70	PRODUCED (B)	*EST. +NO DATA 1967-74	
* 317	2975	11.8	19.8	97	38.8	05-54	12-60	9	8	170	PENN SD, PROD (R)		
*4130	3115	8.0	12.0		40.1	08-55	10-56	1	1	12	TAR SPRINGS (R)		
*4094	3031	26.0				04-66	04-69	1	1	20	PENN SD (R)		
*4141	3130	12.0			32.6	03-60	10-65	3	7	160	PRODUCED (B)		
*4197	3040	22.0				01-66	01-73	1	1	20	PRODUCED (M)	*INJ SUSPENDED 8-66	
*4198	3215	20.0			38.0	10-62	08-68	1	3	40	PENN SD (R)	*NO DATA BEFORE 1965	
*4184	3150	15.0	14.0	40		12-65	05-74	3	3	60	PENN SD (R)	*ESTIMATEU	
*4179	3146	7.8	18.0	75	37.5	08-58	01-72	2	1	80	PROD. PROD (M)	*NOT OPERATED 1970-1972	
*4119	2900	5.0	19.0		38.0	01-55	05-62	4	15	400	PENN SD, PROD (B)		
4057	3065	12.0				12-58		1	1	30	PRODUCED (R)	*EST.+INCL PRIM SINCE 1958	
4056	3250	14.0				8-69*		+	1	20	AUX VASES	*EST.+ACCIDENTAL OR DUMP FLOOD	
4140	3135	13.0			38.4	12-60		2	4	60	PRODUCED (M)	*ESTIMATEU SINCE 1970	
*3416	2500					08-54	10-60	3	8	120	PRODUCED (R)	*INCL WITH 3409	
3421	2535	21.0			35.0	10-60		6	13	320	TAR SPGR (M)	*INJ. TERMINATED 1973; +EST	
*4055	3025	15.0				8-63	8-69	5	8	150	PRODUCED (R)	*EST. +NO DATA	
*4058	3000	24.0				10-60	12-72	+	2	30	+	*EST.+ADJ. TO 4146 1960-72	
4060	3100	9.0				01-70		2	6	110	PRODUCED (R)	*EST +INCL PRIM SINCE 1-71	
* 300	3010	5.0				06-55	01-76	4	8	220	RIVER, PROD (M)	*ESTIMATEU	
372	2650	10.0				06-69		1	4	80	PRODUCED (R)	*ESTIMATEU	
	2920	20.0						1	4	80			
	3002	8.0						1	5	80			
4069	2640	12.0				06-68		1	5	60	PRODUCED (R)	*ESTIMATEU	
	3010	8.0						1	5	60			
* 301	2990	30.0	14.0	2000	38.5	07-53	05-58	1	1	20	PROD (B)		
3427	2800	6.0			36.0	05-64		1	4	50	PENN SD, PROD (R)	*DATA NOT AVAILABLE	
3449	2615	9.0				07-62		1	5	60	PRODUCED (R)	*EST.+INCL PRIM SINCE 66	
4087	3120	13.0				06-67		3	6	120	SH WELL (F)		
4149	3120	20.0			38.0	11-65		3	8	120	PURCHASED (F)	*INJECTION CURTAILED 10-73	
4159	3200	7.2	13.0	200	40.1	10-62		5	4	480	PENN SD (R)		
4194	3150	12.0			39.0	11-65		4	9	100	CYPRESS (R)		
384	2600	20.0				01-64		1	11	120	PRODUCED (B)	*ESTIMATEU +ADJ. TO PROJECTS 335 & 358 SINCE 1961; INCL SOME SALEM OIL	
	2910	11.0						+	1	20			
	2975	4.0						+	1	20			
*1901	2530	6.2	14.0		38.0	05-51	01-70	2	6	235	PRODUCED (B)		
*1902	2580	8.2	14.0		40.0	05-53	01-70	3	5	415	SH SD, PROD (M)		
4046	2844	8.0			39.0	8-76		1	5	70	PRODUCED (R)		
4067	3075	7.5	19.0	35		04-71		6	8	236	PRODUCED (B)		
	3130	4.5						2	8	215			
4068	3015	6.5	18.5	30	37.0	09-71		1	4	165	WELL & PROD (M)		
*4084	2935	11.0	16.0	35	39.3	03-67	01-74	1	1	50	PRODUCED (B)		

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY											
CONTINUED											
*4115	ROBINSON, PUCK.	N PUCKETT U	AUX VASES	9-2S-8E			966		122		
*4116	ROBINSON, PUCK.	S PUCKETT U 1	AUX VASES	16-2S-8E			4337		458		1798
1918	HUBERT ROSE	LIBERTY W UNIT	MCCLOSKEY	14,21-5N-10E		*	319*	*	24*	*	24*
1930	HUBERT ROSE	MCCLANE-MAY	MCCLOSKEY	8,17-6N-10E		102	800	5,0	170	102	800
1931	HUBERT ROSE	MATTINGLY	AUX VASES	5-5N-10E		+	+	5,0*	51*	35*	300*
			SALEM								
3433	HUBERT ROSE	DUNDAS WEST UNIT	MCCLOSKEY	28,33-5N-10E		+	1384**	+	45**	+	170**
3436	HUBERT ROSE	SOUTH NOBLE UNIT	MCCLOSKEY	29,32-3N-9E		86	1868*	1,9	137*	86	1067*
4186	HUBERT ROSE	SYCAMORE CONSLO	AUX VASES	22,23,24-2N-7E		432	3413*	17,5	258*	432	1958*
			MCCLOSKEY								
4111	ROYALCO, INC.	M.OSTERMAN	AUX VASES	14,23-1S-8E		150*	1069*	4,8*	130*	80*	394*
			OHARA								
			MCCLOSKEY								
* 347	J. W. RUDY ORLG.	ED WILSON	AUX VASES	32-3N-9E			235		44		41
* 363	J. W. RUDY ORLG.	CLARK LEASE	CYPRESS	20-3N-9E			62		7		32
4088	J. W. RUDY ORLG.	FLEXTER	AUX VASES	3-1N-7E		19*	516*	0,8*	143*	19*	343*
3444	FRED SEIP	R. S. SHATTO	MCCLOSKEY	20-3N-9E		84*	1299*	3,4*	143*	84*	1339*
3445	SHAKESPEARE OIL	RUNYON-TOTTEN U	SPAR MTN	25-3N-9E		181	413	7,4	21	132	183
*4117	SHAKESPEARE OIL	E. BANKER SCHOOL U	CYPRESS	22-2N-8E			801		219		587
*4118	SHAKESPEARE OIL	E. GEFF UNIT	AUX VASES	12,13-1S-7E, 7,17,18-1S-8E			9553		966		3900
			AUX VASES	28,33-1N-7E, 3,4-1S-7E		115*	7511*	5,3*	203**	115*	2192**
4166	SHULMAN BROTHERS	W GEFF U	OHARA				467				
			MCCLOSKEY				2900				
4177	SHULMAN BROTHERS	NE GEFF U	AUX VASES	1,11,12,13-1S-7E		95*	9744*	6,6*	1306*	95*	4515*
*4196	JOE SIMPKINS OIL	MEISNER UNIT	AUX VASES	3-2S-8E, 33,34-1S-8E			2544*		239*		1033*
*3428	WAYNE SMITH, OP.	ONION HILL U	AUX VASES	1,12-4N-9E, 36-5N-9E			5929		158		3127
			SPAR MTN				427**		22*		240*
4190	S. ILL. OIL PROD	SOUTH CISNE U	AUX VASES	27-1N-7E		47*	765*	2,8*	91*	47*	568*
*1907	M. M. SPICKLER	WILLOW HILL	MCCLOSKEY	36-7N-10E			*		2		
4047	TAMARACK PET.	ANDSON-FRNN-JRON-WILSN	AUX VASES	23-2N-8E		20*	1000*	0,4*	110**	20*	1000*
4079	TAMARACK PET.	BLACK OAK SCHOOL U	AUX VASES	27,23,26,27-1S-8E		701	7224	21,5	294	157	1222*
4081	TAMARACK PET.	CLAY UNIT	AUX VASES	9,10,15,16-1S-8E		228	2682	1,0	102	20	451*
*4095	TAMARACK PET.	EAST CLAY	AUX VASES	10-1S-8E			284		19		36
*4108	TAMARACK PET.	PIERCE	SPAR MTN	22-2N-8E			1013*		86		922
4157	TAMARACK PET.	S.W. MT. ERIE U	AUX VASES	4-1S-8E		112	1849	2,9	93	35	368
4191	TAMARACK PET.	CISNE UNIT	AUX VASES	3,9,10-1S-7E		62	2944	2,4	389	44	710
4193	TAMARACK PET.	WILSON U	AUX VASES	23,26-2N-8E		45*	2815*	4,1*	344**	45*	1324*
*4132	TEXACO, INC.	E. GALLIGHER	MCCLOSKEY	2-2S-7E			32				
*4144	SAM TIPPS	W GEFF U	AUX VASES	16,17,21-1S-7E			1690		105		1137
302	UNION OIL CALIF.	T M & S UNIT	CYPRESS	9,10-2N-8E		125	454	5,6	65	78	358
304	UNION OIL CALIF.	NE WOODSIDE SCHOOL	CYPRESS	16,17-2N-8E		*	1621*	25,9	148	70	636
			MCCLOSKEY								
335	UNION OIL CALIF.	WEILER SCHOOL CONSLO	CYPRESS	13,34-3N-8E, 3,4-2N-8E		218	8410	23,7	1068	132	3970
			MCCLOSKEY								
341	UNION OIL CALIF.	W. CLAY CITY	AUX VASES	10-2N-7E		641	4987	19,3	267	253	2144
			MCCLOSKEY								
349	UNION OIL CALIF.	THOMAS SCHOOL U	CYPRESS	5,6,7,8,17,18-2N-8E		812	24331	42,7	2251	747	11094
			AUX VASES	12-2N-7E							
			MCCLOSKEY								
358	UNION OIL CALIF.	RUNNYVILLE C *	CYPRESS	27,28,29,32,33-3N-8E		1194	15621	84,6	1733	1286	11429
			BETHEL	4,5,6-2N-8E							
			AUX VASES								
			MCCLOSKEY								
1910	UNION OIL CALIF.	E NEWTON CONSLO	MCCLOSKEY	27,34-7N-10E		235	6028	10,2	431	88	2377
1911	UNION OIL CALIF.	MT. GILEAD CONSLO	MCCLOSKEY	19,20,29,30-5N-10E		926	13417	14,2	562	243	5197
1919	UNION OIL CALIF.	N. DUNDAS U	AUX VASES	7,8,9,18-5N-10E		617	23186	13,9	923	656	9605
			MCCLOSKEY								
1922	UNION OIL CALIF.	S HOOS U	AUX VASES	33-6N-10E		949	22807	50,0	1714	949	10881
			MCCLOSKEY	4,5,6-5N-10E							
			SALEM								
1924	UNION OIL CALIF.	HONEY CONSLO	AUX VASES	16,17-5N-10E		257	4976	17,1	309	415	4288
			MCCLOSKEY								
			SALEM								
3404	UNION OIL CALIF.	OLD NOBLE	CYPRESS	3,4,5,8,9-3N-9E		6292	158487	136,0	6486	6333	137854
			MCCLOSKEY	32,33-4N-9E							
*3406	UNION OIL CALIF.	SW NOBLE U	SPAR MTN	11,12-2N-8E			3810*		181		1056
3418	UNION OIL CALIF.	WAKEFIELD CONS	CYPRESS	13,14,22,23,24,25,26, 27-4N-9E		358	40213	14,4	3867	386	28411
			AUX VASES	35,36-3N-8E, 1,2-2N-8E		60	6158	5,8	369	62	1838
3425	UNION OIL CALIF.	GUYOT CONSLO	CYPRESS								
3429	UNION OIL CALIF.	NE WAKEFIELD CONSLO	MCCLOSKEY	13,14-4N-9E		12	428	0,7	43	6	108
3431	UNION OIL CALIF.	HOG RUN CONSLO	AUX VASES	17-3N-9E		67	2147	2,9	100	72	602
			MCCLOSKEY								
3434	UNION OIL CALIF.	SUGAR CREEK UNIT	SPAR MTN	26,27-4N-9E		*	1083*	1,3	63	5	66
			MCCLOSKEY								
3437	UNION OIL CALIF.	S DUNDAS CONSLO	MCCLOSKEY	30,31-5N-10E		342	3004	6,2	126	147	1121
			AUX VASES								
3438	UNION OIL CALIF.	B-B CONSLO	MCCLOSKEY	27,28-4N-9E			564**	1,6	41	20*	239*
3440	UNION OIL CALIF.	W A M CONSLO	AUX VASES	13,14,23,24,26-4N-9E		106	2604	9,8	101	44	583
			SPAR MTN								
3441	UNION OIL CALIF.	R H & P CONSLO	MCCLOSKEY	24,25-3N-8E		312	2168	2,2	35	84	510
3442	UNION OIL CALIF.	OUTER WAKEFIELD C	CYPRESS	14,23-4N-9E		*	954*	3,1	50	16	206
			AUX VASES								
3443	UNION OIL CALIF.	LU-BERG AREA	CYPRESS	25-4N-9E		200	1438	12,3	187	13	60
3446	UNION OIL CALIF.	COLORADO CONSLO	AUX VASES	4,5-3N-9E		539	545	52,2	118*	498	1177
			MCCLOSKEY								
			ST. LOUIS								
			SALEM								
4065	UNION OIL CALIF.	BANKER SCHOOL CONSLO	CYPRESS	15,21,22,28-2N-8E		40	2236	7,3	847	50	1227
4070	UNION OIL CALIF.	E BANKER SCHL	CYPRESS	21,28-2N-8E		58	692	11,8	119	64	360
			AUX VASES								
*4074	UNION OIL CALIF.	SE WOODSIDE SCHOOL	MCCLOSKEY	20,29-2N-8E			370		8		28
4075	UNION OIL CALIF.	S WOODSIDE SCHL	AUX VASES	19,20,30-2N-8E		197	2518	8,7	217	129	1073
			MCCLOSKEY	25-2N-7E							
4076	UNION OIL CALIF.	E DRY FORK	AUX VASES	25-1S-6E		45	1055	2,1	85	43	221
4080	UNION OIL CALIF.	WOODSIDE SCHL C	CYPRESS	24-2N-7E, 19,20-2N-8E		1511	16552	46,7	843	551	5606

## in Illinois, 1977--continued

Field, County  Project no.	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source:	Type:	
								Inj.	Prod.		SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	(F) = Fresh (B) = Brine (M) = Mixed	
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY CONTINUED													
*4115	3150	8.0	19.0	115	39.0	01-56	05-63	6	4	172	SEWAGE, PROD (M)		
*4116	3200	14.8	20.0	80	39.0	08-54	05-63	7	11	243	SEWAGE, PROD (M)		
1918	2900	7.0				04-65		1	1	100	PENN SD, PROD (R)		*TEMP. SHUT DOWN 1972
1930	2800	12.0				7-63		2	4	100	CYPRESS&PROD (R)		*EST. + INCL. PRIM. SINCE 1963
1931	2690	14.0				6-66+		+	1	10	+		*EST. + ADJ. TO 1921 AND 1922
	3250	25.0						+	1	20			SINCE 1966
3433	2870	5.0	13.0	120		01-65		2	3	180	PRODUCED (H)		*ESTIMATED; +TEMP. SHUT DOWN 1977
3436	3005	9.0				09-66		3	5	170	PRODUCED (H)		*ESTIMATED
4186	2930	20.0	19.0	75		11-64		2	6	440	PENN SD, PROD (R)		*ESTIMATED
	3010	20.0						2	2	100			
4111	3050	15.0				06-71	05-75	1	3	80	PENN SAND, PROD (R)		*ESTIMATED SINCE 1976
	3100	8.0				04-58		1	2	70			
	3150	10.0				06-71	05-75	1	2	70			
* 347	2933	15.0			39.2	02-59	01-72	1	2	40	CYPRESS (R)		
* 363	2678	10.0				06-68	01-74	1	1	30	SURFACE PROD (M)		
4088	2990	12.0	19.0	22	38.5	12-61		1	2	120	CYPRESS, PROD (R)		*ESTIMATED SINCE 1976
3444	3000	5.0	16.0	1307	39.0	01-61		1	1	40	PRODUCED (R)		*ESTIMATED SINCE 1970
3445	3080	7.0			38.0	12-75		3	11	150	PENN SD (F)		
*4117	2639	12.5	16.5	43	34.4	01-57	12-71	3	6	110	SH SD (F)		
*4118	3065	15.9	19.0	85	38.7	01-57	01-72	30	31	588	SH SD, PROD (M)		
4166	3080	8.0				12-63		6	13	250	PENN SD (R)		*INCL ALL PAYS; +EST SINCE 1967
	3170	5.4				12-63	12-66	3	5	160			
	3200	19.0				12-63	12-67	7	20	960			
4177	3075	20.0	18.0	75		09-64		30	18	1127	PENN SD, PROD (R)		*ESTIMATED SINCE 1975
*4196	3170	18.0			39.0	08-65	12-72	20	19	480	PENN SD, PROD (R)		*ESTIMATED
*3428	2800	10.0	18.0	50	39.0	04-64	6-74	30	25	500	PENN SD, PROD (R)		*ESTIMATED; +SWD SINCE 1974
	2900	10.0				4-77		1	2	40			
4190	3004	16.0			38.0	10-65		1	4	40	PENN SD, PROD (R)		*ESTIMATED
*1907	2615	10.0				06-52	12-54	1	1	20	PRODUCED (R)		*DUMP FLOW, NO DATA
4047	2960	13.0				4-65		4	5	110	PRODUCED (R)		*EST. + ADJ. TO 4193 SINCE 64
4079	3100	14.0	20.1	8	39.0	09-68		7	19	480	PENN SD (R)		
4081	3100	9.0				03-68		4	7	220	SH GRAVEL (F)		*ESTIMATED
*4095	3060	10.0				02-69	02-72	3	2	40	SH GRAVEL (F)		
*4108	3016	10.0				02-54	12-61	2	2	80	PRODUCED (H)		*ESTIMATED
4157	3040	10.1	15.9	24	39.0	10-62		3	3	100	PURCHASED (R)		
4191	3100	10.0	18.0	50	34.5	11-65		6	4	180	PENN SD, PROD (R)		
4193	2960	14.0	19.0	30	39.0	01-65		11	10	220	SH GRAVEL (F)		*EST. + SWD SINCE 7-76
*4132	3255	6.0			38.0	01-58	07-59	1	1	40	CYPRESS, PROD (R)		
*4144	3150	13.0	19.0	85		11-60	01-64	9	10	150	PENN SD (R)		
302	2610	15.0	18.0	65	37.2	05-72		1	4	200	PRODUCED (H)		
304	2620	16.0	18.0		37.6	04-68		2	2	80	PENN SD, PROD (R)		*INJECTION STOPPED 2-3-73
	3000	25.0	15.0					4	2	280			
335	2596	17.0	68.0	24		07-61		8	7	320	PENN SD, PROD (R)		
	2957	15.0	15.0					3	5	280			
341	2960	15.0			38.0	8-71		1	4	60	PRODUCED (R)		
	3070	10.0	16.0			9-70		4	6	240			
349	2650	20.0	13.0	200		07-65		38	34	1480	PENN SD, PROD (R)		
	2900	20.0						8	12	200			
	3000	27.0						6	15	700			
358	2620	16.0	18.0	24	38.5	05-65		24	42	2300	PRODUCED (R)		*INCL FORMER C WILKIN
	2880	8.0	10.0					9	19	300			
	2950	11.0	18.5					11	15	400			
	3000	25.0	15.0					11	14	700			
1910	2670	8.0	15.0	24		10-60		5	6	180	CYPRESS, PROD (R)		
1911	2750	10.0				01-66		7	8	860	PRODUCED (R)		
1919	2720	37.0	18.0	87		07-65		16	28	1250	PENN SD, PROD (R)		
	2791	31.0						13	24	1320			
1922	2720	12.0				11-66		15	22	310	PRODUCED (R)		
	2900	11.0						12	18	570			
	3400	32.0						15	16	680			
1924	2720	11.0	18.5			08-68		4	4	200	PRODUCED (R)		
	2780	25.0	15.0					3	7	200			
	3297	13.0	11.0					4	5	360			
3404	2590	15.0	15.0	24	36.8	08-54		19	67	1550	PRODUCED (R)		
	2930	10.0						11	32	1702			
*3406	2944	6.0	15.0	75		05-57	03-66	2	3	340	CYPRESS, PROD (R)		*ESTIMATED
3418	2545	32.0	17.0	120		05-59		12	20	1640	PENN SD, PROD (R)		
3425	2620	20.0	15.0	75		12-63		9	8	500	PENN SD, PROD (R)		
	3000	20.0						5	7	400			
3429	2579	15.0	18.0	65		11-64		1	1	100	PENN SD, PROD (R)		
3431	2883	25.0	15.0	75		10-65		3	3	210	CYPRESS, PROD (R)		
	2967	7.0						3	3	229			
3434	2925	5.0				05-66		2*	1	300	PENN SD, PROD (R)		*INJECTION CEASED 2-73
	2950	5.0						3*	1	300			
3437	2834	25.0			38.5	06-68		1	3	80	SUB-SURFACE (R)		
	2838	25.0						1	3	80			
3438	2943	25.0	15.0		39.6	10-68		1	3	240	PRODUCED (H)		*EST. + INJ DISCONTINUED 8-73
3440	2674	27.0	15.0		38.1	09-69		1	3	80	WATER SOURCE WELL (R)		
	2905	15.0	14.0					4	3	150			
3441	2940	11.0	18.0		38.5	04-70		2	1	120	PRODUCED (H)		
3442	2619	12.0				12-69		1	3	50	PENN SD (R)		*INJ DISCONTINUED 1-77
	2876	14.0						1	4	50			
3443	2550	10.0	17.0	50	38.8	09-71		5	4	160	PRODUCED (R)		
3446	2860	18.0				12-76		8	8	620	PRODUCED (R)		*UNIT EFFEC. 8-1-75
	2970	10.0						2	5	440			
	3090	20.0						1	4	160			
	3450	20.0						1	1	400			
4065	2639	15.0	18.0	65		09-56		8	6	620	PENN SD, PROD (R)		
4070	2640	15.0	18.0	65	38.6	10-71		2	7	60	WELL (H)		
	2945	15.0	16.0	77				1	3	60			
*4074	3025	14.0	16.0		38.6	05-69	11-73	3	1	80	PRODUCED (R)		
4075	2915	10.0				05-69		3	6	200	PRODUCED (H)		
	3018	8.0						3	5	200			
4076	3119	11.0			38.3	05-69		2	2	200	WELL, PROD (R)		
4080	2620	16.0	18.0		37.0	04-68		13	11	670	PENN SD, PROD (R)		



TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY CONTINUED											
4080	UNION OIL CALIF.		AUX VASES		13-2N-7E;1A-2N-8E						
4091	UNION OIL CALIF.	CENT JORDAN SCHOOL	MCCLOSKEY		1-1N-7E	365	6239	13.1	513	349	3889
4097	UNION OIL CALIF.	DEER CREEK S	MCCLOSKEY		11,12-1S-AE	150	358A*	1.4	122*	32	866*
*4099	UNION OIL CALIF.	BRADLEY U	MCCLOSKEY		26-1N-7E		639		42		
4106	UNION OIL CALIF.	SW VANFOSSAN U	AUX VASES		25,26,27-1N-8E	339	5894	14.9	390	254	2441
			DHARA								
4112	UNION OIL CALIF.	JORDAN SCHOOL U	MCCLOSKEY								
			AUX VASES		27,34,35-2N-7E, 3-1N-7E	*	25655*	6.2	2366	130	14563
*4113	UNION OIL CALIF.	NE JORDAN SCHOOL U	AUX VASES		25,26,35,36-2N-7E		13813		1316		8468
4114	UNION OIL CALIF.	VAN FOSSAN U	MCCLOSKEY		10,14,15,22,23,26,27- 1N-8E	174	16439	3.6	721	174	9012
4131	UNION OIL CALIF.	SE JORDAN SCHOOL U	AUX VASES		2,11-1N-7E	943	23916	19.7	1767	845	15038
4135	UNION OIL CALIF.	DEER CREEK UNIT	AUX VASES		1,2,10,11-1S-8E	170	9332	13.5	714	251	4859
4142	UNION OIL CALIF.	ELM RIVER U	MCCLOSKEY								
			AUX VASES		30,31-2N-AE	233	6901	7.3	561	148	3426
4143	UNION OIL CALIF.	FELLER FLOOD CONSLO	MCCLOSKEY								
*4152	UNION OIL CALIF.	OREGON SCHOOL U	AUX VASES		5,6,7,8-1N-8E	306	14654	15.3	1758	448	10241
4153	UNION OIL CALIF.	SE ENTERPRISE U	AUX VASES		20,21,28,29-1S-8E		2839		185		1579
4164	UNION OIL CALIF.	E. JORDAN SCHOOL C	AUX VASES		24-1N-AE	1	1115	2.7	66	1	222
			AUX VASES		1-1N-7E,6-1N-AE, 35,36-2N-7E	1902	38557	45.9	3126	1740	23909
			MCCLOSKEY								
4176	UNION OIL CALIF.	S JORDAN SCHOOL U	AUX VASES		11,12-1N-7E,7-1N-8E	727	14917	26.2	1567	703	6512
4185	UNION OIL CALIF.	ZIF CONSLO	CYPRESS		4-1N-8E; 33,34-2N-AE	845	14747	37.9	1734	864	8284
			AUX VASES								
4187	UNION OIL CALIF.	SOUTH CISNE CONSLO	MCCLOSKEY								
			AUX VASES		27,34-1N-7E	23	4895	3.3	131	75	1059
4188	UNION OIL CALIF.	N CISNE U	MCCLOSKEY								
			AUX VASES		22,27-1N-7E	263	3787	5.9	250	202	3919
4192	UNION OIL CALIF.	J. P. MOLT-A	MCCLOSKEY								
			AUX VASES		30-1N-AE	67	219	6.4	19	13	41
			DHARA								
*4136	VERNE M. VAUGHN	BLESSING-CHRISMAN U	AUX VASES		31,32-1N-8E		623		180		270
*4098	W&W WELL SERV.	DAVIS, JONES & WHITLOCK	AUX VASES		9-1S-7E		645*		157*		530*
*4180	WATKINS DRILLING	WATKINS & WHITLOCK	AUX VASES		9-1S-7E		152		45		143
4151	M. WEINERT EST.	SOUTH BOYLESTON UNIT	AUX VASES		3,4,9,10-2S-7E	360	5786	13.0	350		
4162	M. WEINERT EST.	NORTH BOYLESTON UNIT	AUX VASES		33,34-1S-7E;3,4-2S-7E	1004	16663	5.0	767		
			MCCLOSKEY								
1926	WICHITA INDUSTRIES	EAST NEWTON WF	MCCLOSKEY		22,23,26,27-7N-10E	700*	4824*	103.7*	595*	600*	2137*
4054	M. J. WILLIAMS	FRED REST	AUX VASES		27-1N-AE	+	+	1.1*	39*	+	+
*4110	M. J. WILLIAMS	COVINGTON UNIT	DHARA		25-1S-6E;19,20,29,30, 31,32,33-1S-7E		26912*		1689*		14374*
			MCCLOSKEY								
*345	ZANETIS OIL PROP	STANFORD LEASES	AUX VASES		3,4,10-2N-7E	122	1673	5.8	190	122	1673
*1908	ZANETIS OIL PROP	P. KELLY 3	SPAR MTN		1-5N-9E		184		8		312
*1909	ZANETIS OIL PROP	C. HARVEY 2	SPAR MTN		12-5N-9E		457		2		
*1917	ZANETIS OIL PROP	HINES-ODCS 'A' ETAL	SPAR MTN		4,9-5N-10E		77		14		27
1921	ZANETIS OIL PROP	KELLER 'A'-PAYNE HRS.	AUX VASES		5,6-5N-10E	68	2614	32.8	622	68*	2614*
			SPAR MTN								
			SALEM								
*4096	ZANETIS OIL PROP	SHAW	AUX VASES		34-1S-AE		142		12		24
COIL, WAYNE											
4077	BELL BROTHERS	COIL U	AUX VASES		17,18,19-1S-5E	279	4418	29.5	754	228	1692
4100	W. C. MCRIE	YOUNGBLOOD U	AUX VASES		19-1S-5E	129	1828	17.2	380	91	1192
4052	STONE OIL CO	BYARS-GARRISON	ST LOUIS		19-1S-5E	*		11.0	146**		
COIL N, WAYNE											
*4053	M. D. BURKETT	KEEN-WILSON	AUX VASES		31-1N-5E		600*		124**		600*
COIL W, JEFFERSON											
*2011	GULF OIL CO	COIL W U	AUX VASES		14,15,22,23-1S-4E		1319		82*		749*
*2012	GULF OIL CO	COIL W U	MCCLOSKEY		22-1S-4E		81		*		*
2026	STONE OIL CO	FARRINGTON	ST LOUIS		24-1S-4E	110*	1172*	12.4*	207*	69*	446*
CONCORD C, WHITE											
*4281	ABSHER OIL CO	CONCORD UNIT	TAR SPRINGS		27,28-6S-10E		1169*		251**		339*
*4208	C. E. BREHM	CONCORD N UNIT	AUX VASES		10-6S-10E		637		66		
*4228	GT LAKES CARHON	MCCLOSKEY	SPAR MTN		28-6S-10E		233		5		44
			MCCLOSKEY								
4439	JIM HALEY	TULEY	CYPRESS		21-6S-10E	5*	115*	1.0*	24*	5*	115*
			AUX VASES								
*4309	HUMBLE O AND R	CONCORD CO-OP	TAR SPRINGS		28-6S-10E		1179		143		379
			AUX VASES								
*4205	BARRON KIDD	KERWIN-CONCORD	MCCLOSKEY		21-6S-10E		342		12		77
*4299	O. R. LEAVELL	CONCORD	TAR SPRINGS		21,22,28-6S-10E		3964		402		1910
*4331	O. R. LEAVELL	CONCORD	AUX VASES		28-6S-10E		370		55		289
*4332	O. R. LEAVELL	TULEY	CYPRESS		21,22-6S-10E		1276		57		455
*4358	O. R. LEAVELL	TULEY	AUX VASES		21-6S-10E		141*		24*		66*
4206	PHILLIPS PET. CO	KERWIN	CYPRESS		21-6S-10E	73	3178	6.7	299	85	2024
			AUX VASES								
			SPAR MTN								
			MCCLOSKEY								
*4229	PHILLIPS PET. CO	DALLAS	SPAR MTN		2A-6S-10E		247		3		42
			MCCLOSKEY								
4207	WEBSTOCK OIL CO.	TULEY	CYPRESS		21-6S-10E	37*	2624*	2.8*	198*	37*	1780*
			AUX VASES								
			MCCLOSKEY								
*4444	SLAGTER PRODUCING	BROWN-SPILLMAN U	CYPRESS		16-6S-10E		850*		117**		850*
*4325	THUNDERBIRD OIL	N CONCORD U	HARDINSBURG		9,10-6S-10E		8492		903		5632
CONCORD E C, WHITE											
4445	ABSHER OIL CO	POMEROY	CYPRESS		26-6S-10E	15*	900	0.9**	64**	15*	900*
*4446	FAIRWAY PETROLEUM	PEARCE	CYPRESS		35-6S-10E		275*		39**		205*
			AUX VASES								

## in Illinois, 1977--continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
CLAY CITY C, CLAY, JASPER, RICHLAND, WAY													
CONTINUED													
4080	2950	11.0	18.5					8	10	670			
	3000	25.0	15.0					11	18	874			
4091	2930	15.0	18.0		41.5	03-68		6	5	290			
	2990	4.0	15.0					5	6	290			
4097	2725	8.0	15.0	24	39.4	02-50		2	3	200	PENN SD, PROD (B)		*NO DATA BEFORE 1965
	3090	4.0						3	3	240			
*4099	3013	20.0	22.0	100	39.0	05-60	09-68	3	3	60	PRODUCED (B)		
4106	2975	20.0				01-67		14	15	460	WELL, PROD (M)		
	3030	6.0						4	4	160			
	3075	6.0						3	3	120			
4112	2950	14.0	19.0	73		09-54		37	35	830	PENN SD, PROD (B)		*INJ.OISC.12-71
*4113	2950	15.0	19.0	106		01-56	05-69	14	12	510	PENN SD, PROD (B)		
4114	3070	10.0	13.0	200		01-54		2	5	1810	PRODUCED (B)		
4131	2930	17.0	19.0	106		11-57		16	18	640	PENN SD, PROD (B)		
4135	2990	8.0				12-66		16	16	893	PENN SD, PROD (B)		
	3090	4.0						3	8	450			
4142	2910	20.0	18.0	87		09-58		5	7	210	PENN SD, PROD (B)		
	3010	10.0						3	5	40			
4143	2950	16.0	16.0	77		09-58		20	12	1044	PENN SD, PROD (B)		
*4152	3186	14.0	19.0	35		01-61	08-67	14	13	280	PENN SD, PROD (B)		
4153	2992	12.0	19.0	75		05-61		1	2	70	PENN SD, PROD (B)		
4164	2950	15.0	19.0	77		01-63		35	24	1110	PENN SD, PROD (B)		
	3030	5.0						8	8	400			
4176	2930	23.0	18.0	75		08-64		15	9	880	PENN SD, PROD (B)		
4185	2640	15.0	18.0	75		12-64		2	3	60	PENN SD, PROD (B)		
	2945	15.0						19	20	820			
	3023	5.0						11	12	750			
4187	3005	35.0	18.0	75		12-64		10	7	400	PENN SD, PROD (B)		
	3130	20.0						2	5	200			
4188	3005	35.0	18.0	75		11-64		12	7	640	PENN SD, PROD (B)		
	3100	18.0						4	4	200			
4192	3030	20.0				01-75		1	2	40	PRODUCED (B)		
	3090	30.0						1	2	40			
*4136	3050	18.0				04-59	12-74	2	2	50	CYPRESS (B)		
*4098	3128	20.0				12-59	06-75	4+	7	130+	PENN SD, PROD (B)		*ESTIMATED + COMBINED TOTAL
*4180	3129	11.0	18.0	75	38.0	11-59	10-66	1	1	40	PONO, PROD (M)		
4151	3100	16.0				04-61		4	5	100	PENN SD, PROD (B)		
4162	3094	16.0				02-62		5	8	130	PENN SD (B)		
	3240	10.0						7	18	600			
1926	2760	15.0	15.0	25	40.0	10-71		5	14	620	CYP, PROD (B)		*ESTIMATED SINCE 1973
4054	2960	11.0				1-70		+	3	30			*EST.+ADJ TO ACTIVE WF SINCE 70
*4110	3200	8.0	14.0	80	38.0	06-55	01-72	12	13	1600	PENN SD, PROD (B)		*ESTIMATED 1967-69 NO DATA 70-71
	3250	6.0	13.0	300				21	20	1900			
*345	2900	15.0			37.8	07-64	1-77	1	5	20	PRODUCED (B)		
*1908	2941	5.0			41.0	11-58	01-70	1	1	40	CYPRESS, PROD (B)		
*1909	2954	6.0			40.4	11-58	10-65	1	1	40	CYPRESS, PROD (B)		
*1917	2810	6.0			40.0	08-64	12-66	1	1	60	CYPRESS, PROD (B)		
1921	2760	25.0	15.5	10	39.4	01-66		6	13	240	PRODUCED (B)		*ESTIMATED
	2855	5.0						4	10	260			
	3265	15.0						2	7	130			
*4096	3118	25.0			40.2	07-68	08-70	2	4	80	PURCHASED (B)		
COIL, WAYNE													
4077	2900	15.2	19.7			01-69		6	5	240	PENN SD, PROD (B)		
4100	2860	13.0	21.0	120		05-66		3	3	90	PENN SD, PROD (B)		
4052	3020	10.0				1-70		+	5	70	+PRODUCED (B)		*EST.+ADJ TO 2026**INCL PRIM.
COIL N, WAYNE													
*4053	2800	12.0				1-61	12-71	1	4	50	PRODUCED (B)		*EST.+INCL PRIM SINCE 1960
COIL W, JEFFERSON													
*2011	2700	10.0	19.0	160		01-61	10-63	5	4	95	PENN SD, PROD (B)		*INCL 2012
*2012	2880	8.0				01-61	02-63	1	2	30	PENN SD, PROD (B)		*INCL WITH 2011
2026	3000	8.0				06-69		3	7	160	PENN SD, PROD (B)		*ESTIMATED 1977 DATA
CONCORD C, WHITE													
*4281	2279	11.0			36.4	04-59	01-72	4	3	80	PRODUCED (B)		*EST 1965-71+INC PRM PROD 1959-71
*4208	2950	12.0	21.1	218	35.1	10-52	10-62	2	2	40	GRAVEL, PENN SD (M)		
*4228	2980	17.0			37.5	06-53	01-56	3	8	140	GRAVEL BED (F)		
	3020	5.0						3	5	140			
4439	2630	8.0				06-62		1	1	20	PRODUCED (B)		*ESTIMATED
	2980	6.0						1	1	20			
*4309	2260	10.0	20.9	75	36.0	12-60	12-67	2	3	50	SH SD, PROD (M)		
	2890	11.0	20.9	75				1	1	20			
*4205	3003	16.0				01-55	01-59	1	3	30	SH SD (F)		
*4299	2260	15.0	16.0	175	37.0	08-60	07-67	10	10	210	SH SD, PROD (M)		
*4331	2890	21.0	20.0	75	37.5	01-61	10-67	3	4	50	SH SD, PROD (M)		
*4332	2600	12.0	16.0	135	36.5	10-61	10-66	6	3	130	SH SD, PROD (M)		
*4358	2900	15.0			37.3	03-62	01-72	2	1	20	PRODUCED (B)		*NO DATA 1967-1971
4206	2620	12.0			37.0	07-53		1	1	20	SH SD, PROD (M)		
	2890	13.0						5	2	80			
	2980	4.0						1	1	40			
	3020	9.0						1	2	40			
*4229	2960	15.0	15.0	50	36.0	08-53	11-57	1	3	40	SH SD, PROD (M)		
	3020	15.0						1	3	40			
4207	2620	21.0			37.0	07-51		1	2	20	SH SD, PROD (M)		*ESTIMATED SINCE 1969
	2900	22.0						1	3	30			
	3040	5.0						1	2	100			
*4444	2645	15.0				6-58	1-73	1	4	60	PRODUCED (B)		*EST.+INCL.PRIM PROD.58-73
*4325	2500	12.0	17.5	300	39.0	11-61	01-71	9	21	313	GRAVEL, PROD (M)		
CONCORD E C, WHITE													
4445	2545	9.0				12-63		2	4	60	PRODUCED (B)		*EST.+INCL.PRIM SINCE 63
*4446	2560	18.0				6-63	12-76	1	1	20	PRODUCED (B)		*EST.+INCL.PRIM 1963-76
	2830	12.0						1	1	20			



TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
CONCORD E C, WHITE CONTINUED											
*4233	M. E. GARRETT	PEARCE U	CYPRESS		35-6S-10E, 2-7S-10E		310*		12*		117*
COOKS MILLS C, COLES, DOUGLAS											
* 522	CHARLES R. GRAY	COMBES ESTATE	SPAR MTN		24-14N-7E		76		1		
* 802	CHARLES R. GRAY	LOGAN-MOORE	SPAR MTN		13-14N-7E		61		1		
* 510	KUYKENDALL ORLG.	BRADLEY WF	SPAR MTN		26, 27, 34, 35-14N-7E		1914		56		875
* 513	KUYKENDALL ORLG.	EASTON WF	SPAR MTN		27-14N-7E		556		12		243
* 505	S AND M OIL CO.	COOKS MILLS UNIT	SPAR MTN.		9, 15, 16-13N-7E		3620		262		2800
* 508	SCHAEFER OIL CO.	COOKS MILLS U	SPAR MTN		18, 19, 20, 30-14N-8E, 13, 24, 25-14N- 7E		3165		211		954
CORDES, WASHINGTON											
4010	MOBIL OIL CORP.	GILL EST., P. KOZUSZEK	RENOIST		26-3S-3W	381	4140	11,0	1578*	273	3594
4000	SHELL OIL CO.	CORDES COOP	RENOIST		14, 15, 22, 23-3S-3W	496	28303	40,4	5006	527	32139
CORINTH, WILLIAMSON											
4504	C. E. BREHM	CORINTH UNIT	AUX VASES		29-8S-4E	77	164	41,1	62		
COVINGTON S, WAYNE											
*4120	DONALD G. GEARY	HEIDINGER-VOGEL	MCCLOSKEY		13-2S-6E		51		*		
CROSSVILLE W, WHITE											
*4404	CONTINENTAL OIL	CROSSVILLE WEST U	AUX VASES SPAR MTN MCCLOSKEY		15, 16-4S-10E		1199		46		245
DALE C, FRANKLIN, HAMILTON, SALINE											
*1309	C. E. BREHM	WESTBROOK	AUX VASES		1-7S-4E; 6-7S-5E		1015		110		
*1513	C. E. BREHM	CANTRELL U	AUX VASES		4, 5-7S-5E; 33-6S-5E		3007		340		244*
*1534	C. E. BREHM	HOGAN U	AUX VASES		9, 16-7S-5E		2427		73		276*
*1544	C. E. BREHM	P. M. SMITH	AUX VASES		33-6S-5E, 4-7S-5E		1588		275		637*
*1545	C. E. BREHM	RURAL HILL S	AUX VASES		33, 34-6S-5E, 3, 4-7S-5E		1371		10		93*
*1552	C. E. BREHM	MOORE U	AUX VASES		29, 30, 32-6S-5E		737		13		104*
*1553	C. E. BREHM	CROW U	AUX VASES		30, 31-6S-5E		1282		155		101*
3622	C. E. BREHM	WEST END	AUX VASES		19, 20, 30-7S-5E; 25-7S-4E	168	7696	8,2	707	160*	2076*
1556	JDE A. DULL	DALE W WF	AUX VASES		6-7S-5E	27*	583*	1,4*	56*	27*	251*
*1564	DUNCAN LSE+ROY	KNIGHT	AUX VASES		9-6S-6E		935		28		
*1520	FARRAR OIL CO.	TEOFORD	AUX VASES		26-5S-6E		436		138*		256*
*1525	FARRAR OIL CO.	TEOFORD	BETHEL		26-5S-6E		62		*		*
1566	FARRAR OIL CO.	NW RURAL HILL U	AUX VASES		21-6S-5E	185*	1624*	10,5*	335*	165*	659*
1575	FARRAR OIL CO.	URIAH FOSTER	AUX VASES		22-6S-5E	65*	400*	4,0*	44*	65*	400*
*1547	T. W. GEORGE EST.	CANTRELL S. UNIT	AUX VASES		7, 18-7S-5E		3259		512		1640
1526	HERMAN GRAHAM	J. H. STELLER	AUX VASES		27-5S-6E	15*	1773*	1,2*	125*	15*	1724*
1528	HERMAN GRAHAM	DALE-HOODVILL COOP	BETHEL		27-5S-6E		319				
*1537	HERMAN GRAHAM	NELLIE PORTER	CYPRESS BETHEL		34-5S-6E	55*	5497* 447*	2,6*	236** 17*	55*	2477** 256*
			AUX VASES				2495*		255*		1820*
*1510	GULF OIL CO	W RURAL HILL U	AUX VASES		11, 14, 15, 22, 23-6S-5E		10312		1405*		5499*
*1511	GULF OIL CO	W RURAL HILL U	OHARA		11-6S-5E		695		*		*
*1559	GULF OIL CO	M. E. PARKS 'B'	OHARA		34-6S-5E		179		4		48
*1536	DAVID F. HERLEY	WEST END	AUX VASES		8-7S-5E		2262		283		680*
*1501	INLAND PRODUCERS	N RURAL HILL U	AUX VASES		5, 6, 7, 8-6S-6E		3372		293		1536
3620	LOUIS KAPP	RALEY	AUX VASES		29-7S-5E	33*	566*	2,3*	70*	33*	556*
*1523	E. M. KAUFMAN	N. RURAL HILL U	AUX VASES		11, 12-6S-5E		1900		119*		1018
*1524	E. M. KAUFMAN	S. E. RURAL HILL U	AUX VASES		18, 19-6S-6E		2312		247*		1492
1549	E. M. KAUFMAN	SW RURAL HILL UNIT	AUX VASES		23-6S-5E	38	1938	2,8	163	38	1659
1563	LAND PETROLEUM	HOOD-WILSON U	CYPRESS BETHEL		6-6S-7E	401	16327	13,0	1386	441	8265
1578	LAND PETROLEUM	CULLUM-SUTTLE U	AUX VASES		4, 5-6S-6E	112	903	1,5	36	21	503
1557	MAC OIL COMPANY	BURNETT WF UNIT	AUX VASES		1-7S-5E	31	938	1,1	70	31	447
*1533	MARATHON OIL CO.	OGLESBY-GRISWOLD	AUX VASES		17-6S-6E		211		2		16
1561	MARATHON OIL CO.	BRILL UNIT	HARDINSBURG CYPRESS		6-6S-7E	251	9263	6,6	684	340	5882
			BETHEL								
1565	MARATHON OIL CO.	M. C. MOORE	AUX VASES		26, 34, 35-6S-5E	62	5626	5,5	276	82	1840
*1543	MARION CORP	FRIEL	OHARA BETHEL		34-5S-6E		3064		255		1592
1548	W. C. MCBRIDE	BENEFIEL-ARNOLD	AUX VASES MCCLOSKEY		16, 21-6S-7E	134	3821	5,7	241	136	2390
*1502	PHILLIPS PET. CO	CANTRELL U	AUX VASES		5, 6, 7-7S-5E		1814		161		1116
1568	POLLACK BROS.	ADA DIAL #2	OHARA		8-6S-6E	75*	584*	3,0*	57*	75*	410*
1514	SHELL OIL CO.	RURAL HILL UNIT	AUX VASES OHARA MCCLOSKEY		11, 12, 13, 14, 23, 24-6S-5E 5E 7, 18-6S-6E	86	64159	11,5	4885	341	43799
*1512	SHERMAN ORLG	RURAL HILL	AUX VASES OHARA		13, 23, 24-6S-5E		5700*		674*		4124*
*1535	JOE SIMPKINS OIL	BARKER	AUX VASES		24-6S-5E		543		74		261
*1567	JOE SIMPKINS OIL	DALE COOP	AUX VASES		10, 15, 16-6S-5E		200*		15*		135*
*1507	STEWART PRODUCERS	BILL JONES	AUX VASES		8-6S-6E		171		17		4
*1516	STEWART PRODUCERS	CRAODOCK-ARMES	AUX VASES		19-6S-6E		203*		15*		96*
*1531	STEWART PRODUCERS	WILLIAMS MEIRS COOP	AUX VASES		9, 10-6S-6E		272		4		130
*1539	STEWART PRODUCERS	FLANNIGAN U	AUX VASES		28, 29-6S-5E		722		14		142
*1540	STEWART PRODUCERS	HUNGATE U	AUX VASES		28-6S-5E		506		27		116
*1541	STEWART PRODUCERS	BRUMIT U	AUX VASES		6, 7-6S-6E		266		190		151
*1562	STEWART PRODUCERS	JONES 2	AUX VASES		18-6S-6E		291*		93*		105*
*1504	TEXACO, INC.	WEST DALE UNIT	AUX VASES		11-6S-6E		6476		614		3334
*1508	TEXACO, INC.	HOOD-CAREY UNIT	AUX VASES		3-6S-6E		867		*		*
*1509	TEXACO, INC.	HOOD-CAREY UNIT	BETHEL		3-6S-6E		1109		250*		1910*
*1538	TEXACO, INC.	VAUGHAN-BRACKETT COOP	AUX VASES		17, 18-6S-6E		1237		82		728
1560	TEXACO, INC.	DALE UNIT	TAR SPRINGS HARDINSBURG CYPRESS		1, 2, 11, 12, 13-6S-6E, 5, 6, 7, 8, 17, 18, 19-6S-7E	1133*	17290 1268	165,7+	9763+	8352+	127596+
						779*	24841				

## in Illinois, 1977--continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
								Inj.	Prod.				
Project no.													
CONCORD E C, WHITE													
CONTINUED													
*4233	2550	11.0	14.3	92	36.0	12-66	12-74	4	4	90	SH GRAV, PROD (M)		*ESTIMATED SINCE 1970
COOKS MILLS C, COLES, DOUGLAS													
*522	1778	5.0	11.3		37.0	04-63	01-65	2	3	60	SH SD (E)		
*802	1777	12.0	16.0	41		04-63	01-65	2	2	40	SH SD, PROD (M)		
*510	1800	12.0	17.5	195	38.0	04-62	12-68	7	5	140	SH SD, PROD (M)		
*513	1800	12.0	17.5	195	38.0	04-62	11-68	3	1	40	SH SD, PROD (M)		
*505	1800	12.0	17.0	250	36.0	01-61	01-68	8	24	320	RIVER, PROD (M)		
*508	1780	10.0	13.5	160	39.0	11-61	12-72	4	6	400	PENN SD (B)		
COROES, WASHINGTON													
4010	1270	12.0	20.0	250	37.0	09-65		4	9	180	PRODUCED (B)		*INCL PRIM PROD SINCE 9-65
4000	1230	14.0	20.0	250	37.2	08-50		16	21	935	PENN SD, PROD (B)		
CORINTH, WILLIAMSON													
4504	12.0				38.0	11-75		1	4	90	PENN SD (B)		
COVINGTON S, WAYNE													
*4120	3316	4.0				11-57	10-59	1	1	80	CYPRESS, PROD (B)		*NO WF OIL RECOVERED
CROSSVILLE 4, WHITE													
*4404	3010	16.0				03-65	03-69	2	5	70	PRODUCED (B)		
	3190	6.0						1	1	100			
	3110	4.0						1	4				
DALE C, FRANKLIN, HAMILTON, SALINE													
*1309	3230	8.0	17.0	150	38.0	08-59	01-70	3	4	80	PENN SD, PROD (B)		
*1513	3150	15.0	17.0	150	39.0	01-59	01-70	11	14	250	CYPRESS, PROD (B)		*1966-67 DATA ONLY
*1534	3300	11.3	19.0	150	38.0	06-62	05-71	2	10	130	PENN SD, PROD (B)		*1965-67 DATA ONLY
*1544	3150	22.0	17.0	200	38.0	03-63	09-73	3	14	170	PENN SD, PROD (B)		*ESTIMATED
*1545	3250	22.0	17.0	200	38.0	04-63	03-68	5	9	150	PENN SD, PROD (B)		*1965-66 DATA ONLY
*1552	3250	14.0			37.0	04-65	06-69	3	7	130	PENN SD, PROD (B)		*THRU 1967 ONLY
*1553	3250	14.0			37.0	04-65	01-73	3	6	110	PENN SD, PROD (B)		*THRU 1967 ONLY
3622	3140	20.0	17.0	150	38.0	06-63		7	36	420	PENN SD, PROD (B)		*ESTIMATED
1556	3260	10.0	18.0	85	38.0	12-65		1	3	80	PENN SD, PROD (B)		*ESTIMATED
*1564	3064	30.0				09-61	01-70	2	4	60	PRODUCED (B)		
*1520	3050	20.0				07-61	12-66	2	1	40	PURCHASED (B)		*INCL 1525
*1525	2957	15.0				07-61	07-63	1	2	30	PURCHASED (B)		*INCL WITH 1520
1566	3200	27.0	17.0	100	38.5	08-69		4	3	40	PRODUCED (B)		*ESTIMATED
1575	3190	18.0				09-71		1	2	30	PRODUCED (B)		*ESTIMATED
*1547	3125	20.0	20.5	122	39.4	09-60	12-68	11	9	220	PENN SD, PROD (B)		
1526	3034	11.0	14.0	120		08-61		2	2	60	PALESTINE, PROD (B)		*ESTIMATED
1528	2950	11.0	14.8	117	37.0	07-61	07-64	6	9	150	PALESTINE, PROD (B)		*ESTIMATED; *INCL BOTH PAYS
3050	13.0	20.0	116	37.0		07-61		7	8	150			
*1537	2730	12.0	18.0			5-68	06-76	4	4	80	PRODUCED (B)		*EST *METHEL AND ALL VASES DATA
2900	20.0	16.0				8-62	9-68	4	4	80			
3050	10.0	18.0				08-62		4	4	80			
*1510	3100	21.0	19.1	96	37.0	06-59	05-64	24	21	640	CYPRESS, PROD (B)		*INCL 1511
*1511	3173	19.0			40.4	06-59	05-64	2	1	30	PRODUCED (B)		*INCL WITH 1510
*1559	3350	14.0	15.0	35	38.0	06-65	05-67	2	4	60	SH SD (E)		
*1536	3250	18.0	20.0	340	40.0	12-62	11-68	7	8	150	PENN SD, PROD (B)		*ESTIMATED SINCE 1965
*1501	3125	14.7	23.9		39.0	12-52	04-59	15	16	310	CYPRESS (B)		
3620	3130	8.0				11-69		1	4	50	PRODUCED (B)		*ESTIMATED
*1523	3150	15.0			38.0	01-61	12-67	5	5	110	CYPRESS, PROD (B)		*INCL PRIM PROD SINCE 1-61
*1524	3190	20.0			38.0	09-61	02-70	4	8	120	CYPRESS, PROD (B)		*INCL PRIM PROD SINCE 9-61
1549	3120	15.0			38.0	12-63		5	4	110	PENN SD, PROD (B)		
1563	2710	20.0			37.0	01-65		6	5	200	HARDINSBURG, PROD (B)		
	2875	15.0						5	5	200			
	2950	20.0						5	5	200			
1578	3100	30.0	15.0			10-69		2	5	80	PENN SD, PROD (B)		
1557	3215	20.0	16.0	65	38.0	03-62		1	3	40	PENN SD, PROD (B)		
*1533	3250	16.0	18.0	80		06-62	12-66	1	1	20	PENN SD, PROD (B)		
1561	2750	4.0				01-65		1	1	20	CYPRESS, PROD (B)		
	3000	20.0						4	4	130			
	3130	20.0						4	4	130			
	3210	15.0						4	4	130			
1565	3315	15.0	18.0	100		06-65		6	7	200	CYPRESS WSW, PROD (B)		
	3350	10.0	14.0	40				1	1	40			
*1543	2940	23.0	15.0	150	39.5	09-62	05-69	1	3	130	PALESTINE, PROD (B)		
	3050	16.0	17.0	100				2	3	130			
1548	3080	15.0	17.0	78		11-63		6	9	240	PENN SD, PROD (B)		
	3220	8.0				1-65	9-73	1	1	20			
*1502	3200	15.0	18.0	75	38.0	08-55	10-62	5	7	130	PENN, PROD (B)		
1568	3102	14.0			37.5	07-70		1	2	30	PRODUCED (B)		*ESTIMATED SINCE 1972
1514	3120	20.9	19.0	96	39.4	09-58		46	18	1890	HARD, CYP, PROD (B)		
	3195	10.1	15.0	73				17	27	920			
	3300	12.4	17.0	75				9	13				
*1512	3104	17.5	19.1	97	38.0	05-59	12-70	11	11	250	PURCHASED, PROD (B)		*ESTIMATED 1969-1970
	3192	8.5						1	4	60			
*1535	3200	20.0	19.1	97	38.0	11-62	03-67	2	2	40	GRAVEL REN (E)		
*1567	3170	3.0				08-70	12-71	15	40	640	PENN SD (B)		*ALL DATA ARE ESTIMATED
*1507	3088	22.0				08-58	07-61	1	2	30	CYPRESS (B)		
*1516	3120	20.0	12.0	90	37.0	09-60	03-69	3	4	80	PURCHASED (B)		*NO DATA 1969
*1531	3090	20.0	12.0	90	37.0	07-61	12-65	2	2	40	MCCLOSKEY (B)		
*1539	3240	20.0	12.0	90	37.0	09-62	06-67	4	6	100	PENN SD, PROD (B)		
*1540	3244	20.0	12.0	90	37.0	12-62	06-67	2	4	60	PENN SD, PROD (B)		
*1541	3180	20.0	12.0	90	37.0	10-59	12-71	3	3	60	CYPRESS SD, PROD (B)		
*1562	3166	20.0	12.0	90	37.0	11-62	01-72	1	2	40	PURCHASED (B)		*INACTIVE 1968-1972
*1504	3050	14.0	17.0	125	38.0	07-51	09-67	6	15	260	PENN SD, PROD (B)		
*1508	3050	26.0	19.0	109	37.0	06-58	12-68	5	8	130	HARDINSBURG, PROD (B)		*INCL WITH 1509
*1509	2950	26.0	17.5	126	37.0	06-58	12-68	5	8	130	HARDINSBURG, PROD (B)		*INCL 1508
*1538	3150	18.0	21.4	149	38.8	03-62	11-68	5	10	180	PENN SD, PROD (B)		
1560	2400	18.5	18.0	52	38.0	07-65		14	14	497	PENN SD, PROD (B)		*ESTIMATED FROM TOTAL INJECTION
	2475	8.5				01-65	07-71	3	4	320			*INCL ALL PAYS
	2680	13.3	15.3	109	36.0	01-65		33	33	2399			

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
DALE C, FRANKLIN, HAMILTON, SALINE CONTINUED											
1560 TEXACO, INC.				RETHEL AUX VASES		1275*	37910				
1542 UNION OIL CALIF.		DALE COOR		TAR SPRINGS HARDINBURG CYPRESS RETHEL AUX VASES	36-5S-6E, 31-5S-7E, 6, 7-6S-7E	3896* 744	97683 27498	31.0	2069	629	13434
3625 PAUL ZIEGLAR		WEST END UNIT		AUX VASES	17, 19, 20-7S-5E	80*	2721*	6.8*	226*	80*	1529*
DEERING CITY, FRANKLIN											
1319 FARRAR OIL CO.		PEARBODY COAL		AUX VASES	9-7S-3E	25*	504*	1.1*	119**	25*	424*
OIVIOE C, JEFFERSON											
2007 DEVON CORP.		RITCHARD HRS		AUX VASES	20-1S-4E	28	279	6.0	76	23	129
2015 DEVON CORR.		OELLA MCFLRAVY		AUX VASES	17-1S-4E	22	243	1.0	29	22	147
2022 JOHN GUNNILL		ELLER-PIERCE-WILLIS		MCCLOSKEY	16-1S-4E	50*	300*	10.5*	54*	50*	300*
*2002 GULF OIL CO		W.D. HOLLOWAY		MCCLOSKEY	21-1S-4E		2707		185		2294
2027 E HOMER JAHN		MINOR UNIT		SPAR MTN	23-1S-3E	+	+	5.2*	230*	85*	1100*
2021 TEXACO, INC.		WEST OIVIOE U		SPAR MTN MCCLOSKEY	13, 14, 15, 22, 23, 26-1S-3E	2167	30694	35.6	1378	1835	21025*
DUBOIS C, WASHINGTON											
4007 N. A. BALORIOGE		KAMINSKI		CYPRESS	7, 8, 17-3S-1W	100*	1330*	7.2*	142*	100*	950*
4024 N. A. BALORIOGE		MUSIAL WATERFLOOD		CYPRESS	19-3S-1W, 24-3S-2W	20*	60*	0.8*	3*	20*	60*
*4003 HARRY MABRY		REEK		CYPRESS	20-3S-1W		68		16		5
4001 ELMER OELZE		O D RECK		CYPRESS	20-3S-1W	12*	330*	0.6*	13*	12*	151*
4006 ELMER OELZE		KLAYROW		CYPRESS	17-3S-1W	68*	887*	3.5*	109*	68*	850*
4025 E. M. SELF		RUDDOLPH		CYPRESS	17-3S-1W	48*	1100*	6.1*	102**	48*	1100*
DUOLEY, EDGAR											
900 BARR-HOMAN-ROBSON		BABER LSE		L DUOLEY	9-13N-13W	200*	1300*	25.5*	367*	200*	1300*
903 BARR-HOMAN-ROBSON		HABER LSE #2		L DUOLEY	4-13N-13W	50*	343*	5.9*	40*	50*	343*
906 G. T. DORIE		BRINKERHOFF		L DUOLEY	10-13N-13W	25*	615*	4.4*	122**	25*	615*
905 W MENIGMAN EST		WALLER		L DUOLEY	3-13N-13W	24*	624*	4.0*	135**	24*	624*
904 JUDITH NEUMAN		STEIDL		L DUOLEY	3-13N-13W	32*	489*	2.9**	35**	32*	489*
901 ONIS PATILLO EST		ZITA HUKILL		L DUOLEY	3-13N-13W	27*	359*	5.2*	64*	27*	359*
902 ONIS PATILLO EST		A STAUB LSE		L DUOLEY	4-13N-13W	45*	341*	11.9*	104*	45*	341*
EDINBURG W, CHRISTIAN, SANGAMON											
103 DON HANKS		EDINBURG W U		SILURIAN	8, 16, 17-14N-3W	3	1058	7.3	152*	3	690
ELBRIDGE, EDGAR											
* 907 CONTINENTAL OIL		ELBRIDGE		FREDONIA	1, 2-12N-11W/ 36-13N-11W		12000*		800*		12000*
ELDORADO C, SALINE											
*3614 BUFAY OIL CO		SPRICH-LORCH		WALTERSBURG	35-8S-6E		137		24		
*3610 HAR-KEN OIL CO.		SOUTHWEST U		WALTERSBURG	20, 21-8S-7E		8703		663		2897
3611 HAR-KEN OIL CO.		CENTRAL U		WALTERSBURG	15, 16, 21-8S-7E	945	21008	24.1	1919	750	9487
3621 HAR-KEN OIL CO.		WEST UNIT		HALESTINE	20-8S-7E	419	3144	21.1	87	97	285
				RETHEL AUX VASES							
3624 LOUIS KAPR		ELDORADO NW		WALTERSBURG	9, 16, 17-8S-7E	158	688	2.5	25	37	112
				AUX VASES							
*3603 FRANK KING		ENDICOTT U		WALTERSBURG	2-8S-7E		221		21		42
*3609 W. C. MCHRIE		CYP, ELDORADO NE UNIT		CYPRESS	10, 15-8S-7E		633		58		127
3600 MISTY OIL CO		NW ELDORADO U		TAR SPRINGS	8-8S-7E	175	1207	10.4	72	57	236
				HARDINBURG AUX VASES							
3612 MISTY OIL CO		VICTOR SUTTNER C.		AUX VASES	7-8S-7E	80*	968*	4.9*	64*	80*	484*
3608 THE NELSON CO.		WALT, ELDORADO NE U		WALTERSBURG	10, 11, 15-8S-7E	240*	17745*	10.9*	1559**	240*	7975*
ELDORADO E, SALINE											
*3607 G. L. REASOR OIL		PORTER		AUX VASES	23-8S-7E		373		35		41
ELLERY E, EDWARDS											
*1007 T. E. CROSLLEY		ELLERY EAST UNIT		AUX VASES	27, 34-2S-10E		1639*		433**		887**
*1019 T. E. CROSLLEY		ELLERY E U		OHARA	27, 34-2S-10E		1673*		+		+
ELLIOTTSTOWN N, EFFINGHAM											
*1101 VIRGIL STREETER		N ELLIOTTSTOWN		MCCLOSKEY	17, 20-7N-7E		529*		99*		263*
ENERGY, WILLIAMSON											
4502 A. B. VAUGHN		ENERGY WF		AUX VASES	3, 4-9S-2E	360*	947*	9.4*	77*	360*	848*
ENFIELD, WHITE											
*4441 JOE A. DULL		RRICE		AUX VASES OHARA	29-5S-8E		400*		80**		400*
*4209 RICHARD ELSIE		S ENFIELD U 2		MCCLOSKEY	28, 29, 32-5S-8E		1127		92		845
*4264 RICHARD ELSIE		S ENFIELD U 1		AUX VASES	28, 29, 32-5S-8E		2288		360*		519
*4292 RICHARD ELSIE		S ENFIELD U 3		OHARA	28, 29, 32-5S-8E		363		99*		259
EXCHANGE E, MARION											
*2630 FARRAR OIL CO.		EXCHANGE EAST UNIT		SRAR MTN MCCLOSKEY	29-1N-4E		348		51		104
EXCHANGE N C, MARION											
2635 EGO OIL CO		SLAROUT WF		MCCLOSKEY	7-1N-4E, 12, 13-1N-3E	282	2620	6.0	465	97	949
EXCHANGE W, MARION											
2628 STONE OIL CO		CHARLETON FLOOD		SRAR MTN	4-1N-3E	84*	922*	10.3*	159**	35*	324*
FAIRMAN, CLINTON, MARION											
* 413 PAUL WATTE		DUCOMA-KREITLER		RENOIST	13, 24-3N-1W		1494**		252**		1494**



## in Illinois, 1977--continued

Field, County	Reservoir statistics (avg. value)						Development as of 12-31-77				Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
DALE C, FRANKLIN, HAMILTON, SALINE CONTINUED													
1560	2900	18.0	13.0	22	36.0	01-65		48	56	3040			
	2980	16.5	17.3	66	37.0	01-65		60	58	3192			
1542	2320	15.0	18.0	150		06-63		1	2	30	PENN SD, PROD (B)		
	2500	16.0						1	2	30			
	2700	15.0						13	16	290			
	2920	22.0						15	15	400			
	3020	25.0						10	10	200			
3625	3150	15.0	18.0	75	37.0	01-56		3	7	110	PRODUCED (B)	*ESTIMATED	
DEERING CITY, FRANKLIN													
1319	2800	15.0			38.2	07-61		1	4	50	PRODUCED (B)	*INCL PRIM; *ESTIMATED	
DIVIOIE C, JEEERSON													
2007	2612	8.0				08-69		1	2	40	CYPRESS (B)		
2015	2658	20.0			37.8	08-69		1	3	50	CYPRESS (B)		
2022	2800	6.0				74-72		2	5	80	PRODUCED (B)	*EST. +INCL PRIM SINCE 72	
*2002	2805	6.9	18.0		36.6	05-55	09-65	1	5	60	PRODUCED (B)		
2027	2680	12.0				10-65		*	6	60		*EST. ; +ADJACENT TO ACTIVE WF	
2021	2710	6.0	13.0	67	37.0	11-64		1	7		PENN SD, PROD (B)		
	2750	13.0	13.8	1033	37.0			17	16	1245			
DUBOIS C, WASHINGTON													
4007	1250	9.5				01-63		6	16	250	PRODUCED (B)	*ESTIMATED	
4024	1235	8.0				1-75		2	4	60	PRODUCED (B)	*EST.	
*4003	1232	12.0			37.0	12-59	08-64	1	2	40	TAR SPR, PROD (B)		
4001	1260	10.0				11-68		1	4	50	PRODUCED (B)	*ESTIMATED SINCE 1970	
4006	1250	10.0			37.0	10-61		3	18	210	BENOIST, PROD (B)	*ESTIMATED	
4025	1215	12.0				10-61		2	5	70	PRODUCED (B)	*EST. +INCL PRIM SINCE 62	
DUNLEY, EDGAR													
900	420	18.0	20.0	30	28.3	08-67		3	15	100	PRODUCED (B)	*ESTIMATED SINCE 1973	
903	410	12.0	20.0	30	29.0	02-72		2	8	80	PRODUCED (B)	*ESTIMATED	
906	410	20.0				7-66		2	7	90	PRODUCED (B)	*EST. +INCL PRIM SINCE 66	
905	415	18.0				01-67		2	6	60	PRODUCED (B)	*ESTIMATED +INCL PRIM SINCE 64	
904	420	15.0				05-67		1	4	40	PRODUCED (B)	*EST +INCL PRIM PROD	
901	410	30.0				03-67		1	3	40	PRODUCED (B)	*ESTIMATED	
902	400	25.0				03-67		1	7	70	PRODUCED (B)	*ESTIMATED	
EONBURG N, CHRISTIAN, SANGAMON													
103	1700	15.0			8.0	11-61		5	20	230	PRODUCED (B)	*INCL PRIM PROD SINCE 10-54	
ELBRIDGE, EDGAR													
* 907	950	4.0				6-50	12-65	12	12	300	PRODUCED (B)	*ESTIMATED	
ELDORADO C, SALINE													
*3614	2050	11.0	15.0	150	38.0	09-64	12-68	1	1	10	PALESTINE SD (B)		
*3610	2130	16.0	17.0	225	38.0	05-63	01-74	5	23	290	PENN SD, PROD (B)		
3611	2150	20.0	17.0	225	38.0	05-63		5	4	520	PENN SD, PROD (B)		
3621	1900	15.0	17.0			2-72		4	6	100	PENN SD, PROD (B)		
	2700	5.0	11.0					1	1	20			
	2900	10.0	15.0		32.6			3	4	100			
3624	2330	15.0				06-71		4	5	100	PRODUCED (B)		
	2900	12.0						3	3	100			
*3603	2090	7.0	13.0	100		04-59	10-63	1	4	60	PENN SD (B)		
*3609	2560	12.0	18.0	80	38.0	12-62	08-68	2	3	90	PENN SD, PROD (B)		
3600	2200	10.0			36.9	05-70		1	1	30	PRODUCED (B)		
	2314	8.0						2	2	40			
	2900	7.0						3	4	80			
3612	2922	8.0			35.4	09-63		1	2	40	PENN SD (B)	S.D. 4-65, REACTIVATED 7-66 *EST	
3608	2200	22.0	19.0	200	38.0	08-63		6	7	540	PENN SD, PROD (B)	*SINCE 11-62; +EST. 1977 DATA	
ELDORADO E, SALINE													
*3607	2900	7.0			37.0	01-61	12-65	5	6	150	PALESTINE SAND (B)		
ELLERY E, EDWARDS													
*1007	3170	10.0	17.7	26		12-57	06-67	13	11	270	SH SD, PROD (M)	*NO DATA 1966-67 +INCL 1019	
*1019	3240	6.0				12-57	06-67	10	16	300	SH SD (F)	*NO DATA 1966-67 +INCL WITH 1007	
ELLIOTSTOWN N, EFFINGHAM													
*1101	2700	6.0				12-66	12-72	2	10	180	TAR SPR, PROD (B)	*ESTIMATED 1968-72	
ENERGY, WILLIAMSON													
4502	2354	20.0			40.0	10-71		1	9	130	PRODUCED (B)	*ESTIMATED SINCE 1976	
ENEILO, WHITE													
*4441	3245	15.0				7-60	12-64	+	1	20	PRODUCED (B)	*EST. +ADJ. TO 4264 & 4292	
	3320	8.0						1	1	30		**INCL PRIM. 1960-1966	
*4209	2945	4.6			36.6	10-56	03-68	2	1	80	SH SD, PROD (M)		
*4264	2810	8.4	21.5	142	36.0	02-54	03-68	3	3	220	PRODUCED (B)	*INCL PRIM PROD	
*4292	2874	5.0			37.5	08-56	10-65	1	1	80	PRODUCED (B)	*INCL PRIM PROD SINCE 8-56	
EXCHANGE E, MARION													
*2630	2775	10.0				05-66	07-70	1	2	80	CYPRESS		
	2850	5.0						1	3	80			
EXCHANGE N C, MARION													
2635	2709	15.0	11.7	200	36.2	11-66		4	9	280	WELL (B)		
EXCHANGE W, MARION													
2628	2572	12.0				11-66		2	10	150	PRODUCED (B)	*INCL PRIM PROD; +EST 1977 DATA	
FAIRMAN, CLINTON, MARION													
* 413	1450	8.0	21.0	357	38.0	03-59	01-76	4	9	130	PRODUCED (B)	*NO DATA 1971-74; *ESTIMATED	

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABO. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
FLORA S, CLAY	* 331	DONALD G. GEARY	GIVEN-MCGREW U	MCCLOSKEY	4-2N-6E		70		4*		7
FRIENDSVILLE N, WABASH	*3998	D. LOEFFLER ESTATE.	FRIENDSVILLE NORTH U	RIEHL	12-1N-13W		379		99		99
*3945		MOBIL OIL CORP.	LITHELAND	RIEHL	1,2-1N-13W		623		142*		282
*3953		J. W. SANDERS	FRIENDSVILLE N U	RIEHL	1-1N-13W		*		7		*
FROGTOWN N, CLINTON	409	ELMER DELZE	SCHROEDER	SILURIAN	31-3N-3W		*	*	9.3*	74*	
GARD'S POINT, WABASH	3853	BELL BROTHERS	TALLEY	OHARA	23-1N-14W		*	*	4.2*	37*	
3852		WALKER OIL CO.	GARD'S POINT UNIT	OHARA	23,26-1N-14W	200*	1305*	10.2*	84*	200*	1070*
GERMANTOWN E, CLINTON	+ 406	NAT. GAS PIPELINE	GERMANTOWN	SILURIAN	36-2N-4W, 1-1N-4W	122	4445	8.5	1210	122	4445
GILA, JASPER	*1916	SCHAEFER OIL CO.	GILA	MCCLOSKEY	28,32,33-8N-9E		3194		418		1760
GOLDENGATE C, EDWARDS, WAYNE, WHITE	*4412	AMERICAN PUMP	POLLARD UNIT	AUX VASES	21,22,27,28-3S-9E		2174		109		10A5
*4124		CITIES SERVICE	KLETZKER U	AUX VASES	4-3S-9E		102		1		10
*4128		CITIES SERVICE	GOLDENGATE U	MCCLOSKEY	28,32,33-2S-9E		926		7		281
*4155		CULLUM OIL CO.	PETTIGREW-PIERCY UNIT	AUX VASES	24-2S-9E		242*		14*		122*
*4154		ALVA C. DAVIS	RUNNAGE-WOODS U	AUX VASES	13,24-2S-9E		631		95		130
*4145		DUNCAN LSE+ROY	SCOTTSVILLE	BETHML	23,26-2S-9E		751		254		
4139		FAIRFIELD OIL CO	POND CREEK WF UNIT	AUX VASES	29,30,31,32-2S-9E	36	8391	7.2	594	36	2413
*4374		GULF OIL CO	GOLDENGATE UNIT	AUX VASES	34,35-3S-9E, 3-4S-9E		7279		656		3649
				SPAR MTN							
				MCCLOSKEY							
*1027		ILL. LSE. OP.	CHALCRAFT-HORN	AUX VASES	20-2S-10E		79		14		5
4083		ILL. MID-CONT.	SOUTH ELLERY UNIT	AUX VASES	24,25-2S-9E	350*	4595*	19.0*	327*	350*	2838*
				SPAR MTN	19,30-2S-10E						
				MCCLOSKEY							
*4447		JENKINS HROS	WHITLOW-WILLIAMS	MCCLOSKEY	28-3S-9E		800*		105**		800*
4123		M AND M OIL CO.	GOLDENGATE UNIT	AUX VASES	32,33-2S-9E	61	399**	4.3	59**	61	146**
				OHARA			1515*		203*		655*
				SPAR MTN							
*4378		MARCH OIL CO.	GOLDENGATE	AUX VASES	3-4S-9E		109		27		107
4148		POOL OIL CO.	W. ELLERY	AUX VASES	15,22,23,27-2S-9E		2546*				
				OHARA		40*	2951*	2.0*	437**	40*	1439**
				SPAR MTN			266*				
1023		ROBINSON PROD.	SNOWBALL UNIT	AUX VASES	30,31-2S-10E	13	13	2.2	2	13	13
				SPAR MTN							
*4138		SKILES OIL CORP.	O'DANIEL U	BETHML	26-2S-9E		215		26		24
*4377		TEXACO, INC.	J. MANCOCK COOP	AUX VASES	21-3S-9E		680		25		275
*4189		M. J. WILLIAMS	GOLDENGATE EAST UNIT	BETHML	25,26-2S-9E		163*		30*		104*
				AUX VASES			163				
GOLDENGATE N C WAYNE	4062	COLLINS HROS.	JONES	AUX VASES	5-2S-9E	5*	135*	0.5*	22*	5*	40*
*4051		ILL. MID-CONT.	LOCKE-JOHNSON	OHARA	17-2S-9E		350*		55*		350*
4066		NOAH PET	GOLDENGATE NORTH UNIT	AUX VASES	17-2S-9E	94*	757*	5.1*	89*	45*	215*
HALF MOON, WAYNE	4168	COLLINS HROS.	HALF MOON UNIT	MCCLOSKEY	2A-1S-9E	20*	5174*	1.8*	188*	20*	2445*
4160		JUNIPER PETROLEUM C	HALF MOON U	OHARA	26,34,35-1S-9E	273	7502	13.1	738	175	2864
HARCO, SALINE	3619	COLLINS HROS.	HARCO U	AUX VASES	16-8S-5E	300*	3464*	13.2*	221*	300*	2127*
3613		LORREE CORP.	HARCO WEST POOL UNIT	AUX VASES	29-8S-5E	15*	703*	1.0*	67*		
HARCO E, SALINE	*3601	SUN OIL CO.	HARCO WF UNIT	CYPRESS	25-8S-5E		84		3		37
*3602		SUN OIL CO.	HARCO WFOU	AUX VASES	24,25,26-8S-5E		334		30		112
HARRISBURG, SALINE	*3606	W. C. MCRIE	HARRISBURG NORTH	WALTERSBURG	34-8S-6E		1597		16		136
HERALD C, GALLATIN, WHITE	1454	ABSHER OIL CO	C.H&T.H HOYD	CYPRESS	23-7S-9E	70*	515*	12.2*	51**	70*	515*
*1419		ASHLAND O AND R	SOUTH NEW HAVEN UNIT	TAR SPRINGS	29,30-7S-10E		1538		229		707
4210		C. E. BREHM	HERALD W. U.	WALTERSBURG	28,33-6S-9E	178	3524	42.3	790		
*4304		C. E. BREHM	NEW HAVEN U	AUX VASES	1A-7S-10E		88		19		
4456		JACK BROOKOVER	NEWCOMB-AUD-MOY-WILSON	CYPRESS	34-6S-9E	24	34	4.4	7	24	34
				AUX VASES							
1444		COLLINS HROS.	HERALD E UNIT	TAR SPRINGS	23,24,25,26-7S-9E	127*	1977*	6.5*	149*	127*	914*
				AUX VASES							
*1405		CONTINENTAL OIL	COTTONWOOD N U	CYPRESS	21,2A-7S-9E		5613		1045*		2114
*1431		CONTINENTAL OIL	COTTONWOOD TAR SPR	TAR SPRINGS	16-7S-9E		179*		30		45
1430		JOE A. DULL	HERALD E U	AUX VASES	24-7S-9E, 19-7S-10E	14*	15A2*	0.7*	15*	14*	446*
1433		JOE A. DULL	GLOVER-NEVILLE	AUX VASES	24-7S-9E	180**	930**	14.3*	96*	180*	930*
*4340		IND. FARM BURE.	NEW HAVEN WF	AUX VASES	17,18-7S-10E		78*		79		14*
4000		PAUL S. KNIGHT	HARRELL-KNIGHT-WILLMS	TAR SPRINGS	14-7S-9E	460*	2374*	23.0*	233*	425*	2172*
4360		LADD PETROLEUM	HAYLEY U	PENNSYLVANIA	11-7S-9E	198	8056	4.7	326	61	3297
				CLORE							
				TAR SPRINGS							
				CYPRESS							
4365		LADD PETROLEUM	HERALD COOP	AUX VASES	10-7S-9E	*	1361	1.9*	132*	40*	1010*
*4359		LIVINGSTON OIL	CALVERT "A"	AUX VASES	4-7S-10E		31				
4355		MASON OIL CO.	HERALD U	CYPRESS	27,33,34-6S-9E,	25*	5486*	1.3*	742*	25*	2079*
					4-7S-9E						
*4291		W. C. MCRIE	HAYLEY	PENN	3-7S-9E		398*		27		129
				CYPRESS							



## in Illinois, 1977--continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	
Project no.								Inj.	Prod.			
FLORA S, CLAY * 331	2992	12.0				10-59	05-61	1	1	40	SH SD, PROD (M)	*ESTIMATED
FRIENDSVILLE N, WARASH												
*3998	1650	10.0	15.0	35	33.0	05-62	01-71	4	3	60	SM SD (F)	
*3945	1620	12.5	16.0	81	35.6	07-47	09-57	2	3	60	SM SD (F)	*INC PRIM PROD
3953	1631	10.0			36.6	08-57	12-61	*	2	40	SM SD (F)	*DUMP FLOOD, N.A.
FROGTOWN N, CLINTON 409	2240	18.0				03-68		3	8	140	PRODUCED (B)	*SWD, NO INJ DATA; *ESTIMATED
GARD'S POINT, WARASH												
3853	2860	10.0				06-71		*	3	60		*ADJACENT TO ACTIVE WF *EST
3852	2880	8.0				06-71		2	8	160	PRODUCED (B)	*ESTIMATED
GERMANTOWN E, CLINTON + 406	2300	60.0			39.4	09-56		2	13	300	PRODUCED (B)	
GILA, JASPER *1916	2835	6.9	12.5	276	39.0	09-63	09-70	4	17	437	GRAVEL, PROD (M)	
GOLDENGATE C, EDWARDS, WAYNE, WHITE												
*4412	3250	12.5	21.0	100	37.4	01-63	04-73	5	6	170	PENN SD, PROD (B)	
*4124	3242	10.0	15.0	10		04-54	10-58	1	2	30	CYPRESS, PROD (B)	
*4128	3308	8.0			34.0	10-53	07-57	2	8	159	GRAVEL BED (F)	
*4155	3270	11.0			39.5	11-62	01-71	2	4	60	PENN SD, PROD (B)	*ESTIMATED 1967-70
*4154	3250	14.0			39.3	05-62	12-70	5	4	90	PRODUCED (B)	
*4145	3100	9.0			39.8	01-59	01-64	8	7	130	SM SD, PROD (M)	
*4139	3220	20.0	15.0	150	38.5	05-60		2	6	600	SM SD, PROD (M)	
*4374	3300	15.0	18.0	101	38.9	03-63	04-67	29	10	560	PENN SD, PROD (M)	
	3400	12.0	13.0	184				25	12	560		
	3458	10.0	10.0	102				19	10	560		
*1027	3222	8.0	22.3			12-62	04-65	1	3	40	PENN SD (B)	
4083	3260	13.5	15.0	8	39.5	09-71		3	4	530		*ESTIMATED SINCE 1973
	3370	7.0	12.5	55	39.5	01-66		2	4	240	PENN SD, PROD (B)	
	3395	6.5	12.5	350				2	4			
*4447	3420	5.0				7-60	7-76	1	2	40	PRODUCED (B)	*EST. + INCL. PRIM. 60-75
*4123	3200	12.0	16.0	100	38.0	09-65		3	1	40	GRAVEL BED (F)	*EST; INCL ALL PAYS; *OMARA AND
	3260	9.0	15.0	30	36.0	08-56		3	2	70		SPAR MTN COMING 8-56 TO 12-75
	3275	6.0	15.0	30								*AV 1965-74; ALL PAYS SINCE 1975
*4378	3310	21.0	18.5	51	39.5	05-63	12-65	1	1	20	PENN SD, PROD (B)	
*4148	3240	10.0				09-61	06-70	4	6	100	SH GRAVEL (F)	*ESTIMATED; +INCL ALL PAYS
	3270	15.0				09-61		4	9	400		
	3310	9.0				09-61	05-70	1	2	60		
1023	3180	5.5				9-77		1	1	30	PRODUCED (B)	
	3310	12.5						1	2	30		
*4138	3097	10.0			37.0	01-59	06-63	2	2	40	SH SD, PROD (M)	
*4377	3240	15.0				01-63	12-66	2	2	40	PENN SD, PROD (B)	
*4189	3080	10.0			39.0	07-65	06-71	1	2	30	PENN SD (B)	*EST 1964-70; NO DATA 1971
	3206	17.0						1	4	60		
GOLDENGATE N C WAYNE												
4062	3225	19.0				9-60		1	1	20	CYPRESS & PROD (B)	*ESTIMATED
*4051	3315	8.0				7-64	11-69	1	1	20	PRODUCED (B)	*ESTIMATED
4066	3250	15.0				07-71		4	5	100	PRODUCED (B)	*ESTIMATED 1977 DATA
HALF MOON, WAYNE												
4168	3300	10.0			40.4	12-62		6	9	470	GRAV BED, PROD (M)	*ESTIMATED
4160	3280	10.0	11.0	124	40.0	01-62		7	10	640	SH SD (F)	
MARCO, SALINE												
3619	2900	15.0				10-69		5	15	230	PRODUCED (B)	*ESTIMATED
3613	2900	5.2	17.8	39	40.0	10-65		3	1	80	CYPRESS, PROD (B)	*ESTIMATED 1977 DATA
MARCO E, SALINE												
*3601	2550	9.0				07-59	08-61	1	2	30	PENN SD, PROD (B)	
*3602	2850	8.0				07-59	09-62	2	9	80	PENN SD, PROD (B)	
HARRISBURG, SALINE *3606	2020	10.0	18.0	140	38.4	07-58	11-68	3	5	80	PENN SD, PROD (B)	
HERALD C, GALLATIN, WHITE												
1454	2575	15.0				4-70		1	4	50	PRODUCED (B)	*EST. + INCL. PRIM SINCE 70
*1419	2150	14.0	16.5	400	35.8	12-61	03-70	5	3	92	GRAV BED, PROD (M)	
4210	2325	20.0	20.0	50	37.0	01-55		7	12	200	PENN SD (B)	
*4304	2900	15.0	15.0	100	38.0	02-60	12-65	3	3	80	RIVER (F)	
4456	2680	12.0				8-76		1	3	40	PRODUCED (B)	
	2920	10.0						1	2	30		
1444	2315	10.0			39.0	08-69		4	5	120	CYPRESS (B)	*ESTIMATED SINCE 1973
	2950	15.0						3	15	200		
*1405	2650	12.0	15.0	80		12-57	04-69	6	15	400	CLORE, PROD (B)	*INCL PRIM PROD SINCE 12-57
*1431	2260	15.0	12.0	30	37.8	10-63	12-68	1	1	40	CLORE, PROD (B)	*INJ STOPPED 4-67
1430	2900	10.0	17.0	150	38.0	08-63		5	2	180	PALESTINE, PROD (B)	*ESTIMATED SINCE 1973
1433	2900	8.0	12.0	37	38.0	11-63		2	9	110	PRODUCED (B)	*INJ PROD WATER SINCE 1-69 +EST
*4340	2870		14.0	10	35.3	02-60	12-67	4	3	250	SH SD, PROD (M)	*EST SINCE 1-62
4400	2260	11.0				10-70		2	6	100	PALESTINE, PROD (B)	*ESTIMATED
4360	1550	15.0	14.0	50		01-62		1	1	20	PENN SD, PROD (B)	
	2050	15.0						3	6	90		
	2280	10.0						4	5	90		
	2630	22.0						2	2	40		
	2880	14.0						7	9	190		
4365	2900	13.0	18.2	100	37.0	05-62		2	6	70	PENN SD, PROD (B)	*EST. 70-77 + INJ. OISC. 731A0JTD04360
*4359	2920	12.0			36.8	05-62	07-64	1	1	20	SHALLOW WELL (F)	
4355	2675	11.4	16.2	52	38.0	06-62		20	20	420	PENN SD, PROD (B)	*ESTIMATED
*4291	1520	15.0	14.6	52		11-69	01-76	2	3	50	PENN SD, PROD (B)	*INJ. CURTAILED 6-75
	2700	10.0						2	3	50		

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
HERALD C, GALLATIN, WHITE CONTINUED											
*4212	Q. B. MITCHELL	BAYLEY U	CYPRESS	2-7S-9E			491		21		35
*4211	DENNIS PAINE	ACKERMAN UNIT	AUX VASES	4-7S-10E			462		63		
4382	BERNARD PODOLSKY	BAYLEY UNIT	WALTERSBURG	13,24-7S-9E		6	1195	0.7	203	32	632
4383	BERNARD PODOLSKY	GRANT AUX VASES UNIT	AUX VASES	13-7S-9E		5	428	1.0	63	19	189
4389	BERNARD PODOLSKY	CLARK UNIT	AUX VASES	4,5,8,9-7S-10E		*	1254*	2.2	109	6	373
4428	BERNARD PODOLSKY	L.O. AUSTIN	WALTERSBURG	28-6S-9E		*	*	3.4+	111+	35+	595+
4427	SANOS OIL CO.	HERALD NW UNIT	WALTERSBURG	27,28-6S-9E		75+	573+	13.0**	118**	75+	433+
4348	SHAKESPEARE OIL	QUESTELL COOR	PENNSYLVNIN	11-7S-9E		37	603	1.9	134*	11	126
*4364	TAMARACK PET.	HERALD U	PENN	34-6S-9E 12-7S-9E			343		17		17
HICKORY HILL, MARION											
*2625	EAGLE SUPPLY CO	HALFACRE	BENOIST	27-1N-4E			114		17		131
HILL E, EFFINGHAM											
1120	PARTLOW, COCHNOR	MORATH, ROYNTER, GADDOY	CYPRESS	1,12-6N-6E		27*	1452*	2.0*	97*	27*	1452*
1121	PARTLOW, COCHNOR	BROWN, WOOD-BROWN	SPAR MTN	10,11-6N-6E		10*	3740*	1.0*	251*	10*	3740*
*1105	WICHITA INDUSTRIES	HILL EAST UNIT	CYPRESS	11,12,13,14-6N-6E			3185		154		1100
HORO, CLAY											
351	JET OIL CO.	CONNERLY-SCHWOLL	AUX VASES	14-5N-6E		10	179	0.2	38	10	113
			STE GEN								
HORO S C, CLAY											
* 332	SHIRK, WEBSTER	SOUTH HORD UNIT	STE GEN	26,27,34,35-5N-6E			8908		748		6707
* 337	SHIRK, WEBSTER	ZINK UNIT	STE GEN	26,35-5N-6E			1571		77		462
INA, JEFFERSON											
*2008	KEWANE OIL CO.	JEFF-KARBER-THREL B	RENAULT	23-4S-2E			2317		238		2535
			MCCLOSKEY				1130				
INGRAHAM, CLAY											
326	BUFAY OIL CO	SAILOR SPRINGS EAST U	SPAR MTN	5,6-4N-8E		36	107	6.8	27	2*	6*
* 320	HUMBLE O AND R	INGRAHAM U	SPAR MTN	4,9-4N-8E			2568		810		1543
INMAN E C, GALLATIN											
1436	AUTUMN OIL CO	EGLI	TAR SPRINGS	20,21,28,29-7S-10E		175*	2535*	10.6*	308*	175*	1406*
			CYPRESS								
1455	JAMES BROWNING	GOFORTH	TAR SPRINGS	27-7S-10E		+	+	7.0	84	28*	230*
*1422	CRAWFORD PROO	BLACK	WALTERSBURG	2-8S-10E			682*		115*		186*
*1409	FARRAR OIL CO.	E INMAN	TAR SPRINGS	33,34-7S-10E, 2,3,10-			24228		3550		
			CYPRESS	8S-10E							
*1406	HUMBLE O AND R	BIG BARN	CYPRESS	11-8S-10E			226		83		27
1456	MOBIL OIL CORR.	WILLIAMS	TAR SPRINGS	27-7S-10E		70*	1200*	3.5*	105*	20*	1100*
*1420	JOE SIMPKINS OIL	HAVEN	AUX VASES	28,32-7S-10E			182		2		
1408	TRI STAR PROD CO	WEST UNIT	PALESTINE	9,10,15,16,21,		199*	28858*	9.4*	3356*	199*	9840*
			WALTERSBURG	22-8S-10E							
			TAP SPRINGS								
			HARDINSBURG								
*1426	E. G. WELKER	EGYPTIAN TIE, TIMBER	CYPRESS	WALTERSBURG	21-8S-10E		515*		61*		149*
			CYPRESS	HARDINSBURG							
1407	WESTERN OILS, LTD	KEKWIN-CRAWFORD	DEGONIA	11,14-8S-10E		90+	2190**	7.3+	2143+	90+	5664+
			CLOSE								
			PALESTINE								
			WALTERSBURG								
			TAR SPRINGS								
			CYPRESS								
			MCCLOSKEY								
1411	WESTERN OILS, LTD	J A WILLIAMS	TAR SPRINGS	27-7S-10E		+	170**	0.2*	19*	10*	263*
1429	WESTERN OILS, LTD	SOUTH INMAN UNIT	WALTERSBURG	21,22-8S-10E		5*	2465**	0.7*	134*	5*	1357*
			CYPRESS								
INMAN W C, GALLATIN											
1410	ASHLAND O AND R	RISTER-MOYE U	TAR SPRINGS	15-8S-9E		11	801	0.8	99*	8	204
			CYPRESS								
1440	ASHLAND O AND R	WEST INMAN U	TAR SPRINGS	11,12,14-8S-9E		252	3303	16.7	342	134	1380
			HARDINSBURG								
			CYPRESS								
*1457	CALVERT ORLG. CO.	GAUEN	CYPRESS	15-8S-9E					90*		
1428	T. L. CLARK	HISH-STAUB UNIT	RIEHL	21-8S-9E		20*	93*	1.6*	25*	20*	103*
1442	FARRAR OIL CO.	POND U	CYPRESS	26,27-8S-9E		95*	1222*	17.9*	230*	90*	696*
			AUX VASES								
*1402	GULF OIL CO	INMAN W U	CYPRESS	15,16-8S-9E			2890*		425*		499*
*1403	GULF OIL CO	INMAN W U	TAR SPRINGS	15,16-8S-9E			*		*		*
1438	JUNIPER PETROLEUM C	RIOGWAY E UNIT	WALTERSBURG	14,22,23,27-8S-9E		164	1855	9.5	227	86	882
			CYPRESS								
*1424	OIL MANAGEMENT INC	ORONE-WIDER-MINER	CYPRESS	27-8S-9E		5*	340*	0.6*	49*	5*	104*
1450	DENNIS PAINE	WILLIAMS	HARDINSBURG	12-8S-9E		*	*	1.0+	35*		
			CYPRESS								
*1404	PHILLIPS PET. CO	LEVERT	CYPRESS	3-8S-9E			8		79		764
*1415	REBSTOCK OIL CO.	INMAN W	TAR SPRINGS	13,24-8S-9E			1408		48*	30*	376*
1427	REBSTOCK OIL CO.	SCHMITT "A"	PENNSYLVNIN	15-8S-9E		30*	2499*	1.8*	169*		217*
*1401	SARER OIL CO	BRAOLEY UNIT	RIEHL	17-8S-9E			512*		261*	20	5182*
1453	SHAKESPEARE OIL	RIOGWAY UNIT	CYPRESS	26-8S-9E		20	5182*	2.3			
			AUX VASES								
1425	JOE SIMPKINS OIL	INMAN WEST UNIT	TAR SPRINGS	1,12-8S-9E, 6,7-8S-10E		80*	2627*	15.5**	1382**	360**	3401**
			HARDINSBURG			100*	1466*				
			CYPRESS			180*	3997*				
1449	JOE SIMPKINS OIL	NORTH INMAN UNIT	AUX VASES	31-7S-10E, 16-8S-10E		200*	900*	13.7*	59*	200*	900*
1451	JOE SIMPKINS OIL	DOWNEN-MURPHY	AUX VASES	1,2-8S-9E		40*	245*	2.2*	14*	40*	245*
1400	TARTAN OIL CO.	GOEBEL-MC GUIRE-RIDER	AUX VASES	19-8S-10E		70*	578*	4.6*	66*	70*	578*
*1458	V. T. ORLG. CO.	A. STRAUER COMM	TAR SPRINGS	15-8S-9E			+		35*		150*
			CYPRESS								
*1423	ZANETIS OIL PROP	SLATON	HARDINSBURG	11-8S-9E			283*		25		121*
			CYPRESS								

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
HERALD C, GALLATIN, WHITE													
CONTINUED													
*4212	2715	15.0	14.9	58	39.0	09-57	08-62	2	2	60	PALESTINE (R)		
*4211	2890	23.0				02-56	01-71	1	2	30	GRAVEL REO (E)		
*4382	2300	8.9	20.0	200	38.5	01-63		2	2	60	PAL SO, PROD (B)		
*4383	2930	9.7	19.0	100	34.8	08-63		2	4	100	PAL SO, PROD (B)		
*4389	2890	8.0	18.0	75	36.0	10-64		8	6	180	RIVER GRAV, PROD (M)		*INJ. SUSPENDED OCT, 1974
*4428	2310	30.0				01-55				60			*ADJ. TO ACTIVE WF +EST
*4427	2320	12.0				01-71		2	5	60	PRODUCED (R)		*ADJ. TO ACTIVE WF SINCE 681 +EST
*4348	1425	13.0	19.0	46	33.5	01-62		1	3	59	PENN SO, PROD (B)		*INCL PRIM PROD SINCE 1-62
*4364	1550	8.0	15.1	15		01-62	12-64	3	3	120	PENN SO, PROD (B)		
HICKORY HILL, MARION													
*2625	2640	10.0			36.0	10-65	01-72	1	1	20	PRODUCED (R)		
HILL E, EFFINGHAM													
1120	2460	6.0				08-59		1	5	60	PRODUCED (R)		*ESTIMATED
1121	2690	6.0				01-61		1	7	170	PRODUCED (R)		*ESTIMATED
*1105	2460	13.0	18.0	100	40.0	12-59	12-64	3	15	150	SH SO, PROD (M)		
HORO, CLAY													
351	2710	15.0				10-65		1	2	20	PRODUCED (R)		
	2780	10.0						1	1	30			
HORO S C, CLAY													
*332	2790	8.6	15.0	862	34.1	09-58	04-70	3	12	340	RIVER, PROD (M)		
*337	2790	5.2	15.8	835	34.0	08-62	06-70	6	4	250	RIVER, PROD (M)		
INA, JEFFERSON													
*2008	2640	10.0	22.0	96	37.0	12-60	12-69	3	3	120	PENN SO, PROD (B)		
	2770	8.0	13.0	25			12-69	4	3	140			
INGRAM, CLAY													
326	2990	10.0				1-75		1	5	140	CYPRESS (B)		*ESTIMATED
*320	3000	5.1	14.2	2450	38.0	12-56	12-60	9	17	297	PENN SO, PROD (B)		
INMAN E C, GALLATIN													
1436	2175	12.0	18.5	325	36.8	04-64		3	4	110	SH SO, PROD (M)		*ESTIMATED
	2499	21.0	16.5	212				4	4	130			
						7-66			3	30			*EST. +ADJ. TO 1411 SINCE 65
1455	2100	18.0								50	PRODUCED (R)		*1965-67 ESTIMATED
*1422	1975	15.0			37.0	01-59	12-67	1	3	50	PRODUCED (R)		
*1409	2150	14.0	17.5	150	37.7	03-54	12-64	33*	35*	700*	GRAVEL REO (E)		
	2440	10.0	16.8	50	38.0			23*	24*	500*			
*1406	2400	5.9	16.5	58	34.0	04-54	12-66	3	1	30	SH SO, PROD (M)		
1456	2100	8.0				6-65*		1	1	20	PRODUCED (R)		*EST. +ADJ. TO 1411 SINCE 65
*1420	2770	9.0	12.4	8	39.0	11-60	07-62	4	4	80	SH GRAV (F)		
1408	1750	10.0	19.0	200	36.5	07-56		2	2	40	GRAVEL REO, PROD (M)		*ESTIMATED SINCE 1968
	1980	15.0			37.2			8	8	160			
	2160	18.0			36.8			5	5	100			
	2200	14.0			36.5			10	10	220			
*1426	2380	24.0			34.4			38	36	750			
	1986	13.0			36.0	01-59	12-68	1	2	30	SH SO, PROD (M)		*NO DATA 1967-68
	2206	13.0						1	2	30			
	2419	5.0						1	2	30			
1407	1700	7.5	18.0	100	37.5	06-55		2	3	50	SH SO, PROD (M)		*NO INJ. 1972-75; +EST SINCE 69
	1730	7.5						5	4	100			
	1830	8.5			37.2			6	8	140			
	1930	13.5			36.8			10	14	200			
	2030	17.0						17	20	340			
	2380	21.8			34.4			12	15	240			
								1	2	40			
1411	2102	14.0	16.0			07-66		1	2	30	PRODUCED (R)		*EST. SINCE 1969; +NO INJ. SINCE 73
1429	2000	7.0	19.6	109	36.0	11-62		8	9	170	SH SO, PROD (M)		*EST. SINCE 1968; +NO INJ. 73-76
	2380	15.0	16.6	89				2	4	60			
INMAN W C, GALLATIN													
1410	2180	10.0	17.0	80		06-61	01-69	2	3	50	GRAVEL REO (E)		*FIRST DATA 11-66
	2500	12.0	16.5	40				1	2	30			
1440	2185	10.0			36.0	05-65		11	11	140	SH SO (E)		
	2320	10.0						2	2	40			
	2516	10.0						10	9	190			
*1457	2500	11.0				6-55	12-63		1	10			*EST. +ADJ. TO 1402, 03 1955-63
1428	1570	10.0	21.0	75	38.0	01-62		2	5	70	PRODUCED (R)		*EST. TEMP. AHO, 1964-1974
1442	2480	7.0				09-68		2	5	80	GRAVEL REO (E)		*ESTIMATED 1977 DATA
	2780	15.0						5	15	210			
*1402	2500	16.5	13.5	40	38.6	05-55	12-63	10	7	110	PENN SO, PROD (R)		*INCL 1403
*1403	2180	11.0	13.0		36.1	03-57	03-63	3	7	90	PENN SO, PROD (R)		*INCL WITH 1402
1438	2080	18.0				01-72		1	1	20	SHALLOW WELL (E)		
	2502	7.0			36.8	11-65		7	8	220			
*1424	2500	8.0				06-66	12-77	4	5	110	PENN SO, PROD (R)		*ESTIMATED 1976-77
1450	2300	10.0				1-68		*	1	20			*ADJACENT TO ACTIVE WF +EST
	2480	15.0						*	2	30			
*1404	2560	6.0	18.0	100	35.0	05-57	06-59	1	1	20	PRODUCED (R)		
*1415	2122	10.0			36.0	04-56	12-70	4	4	69	SH SO, PROD (M)		*ESTIMATED
1427	1666	8.0				06-60		1	4	60	SH SO, PROD (M)		*ESTIMATED
*1401	1726	8.0	15.0	72	36.9	10-57	01-74	1	1	180	PRODUCED (R)		*INACTIVE 1972-73
1453	2490	8.0				05-52		1	3	40	PRODUCED (R)		*EST. SINCE 1952
	2780	18.0						1	2	20			
1425	2150	15.0			36.0	09-66		11	7	200	GRAVEL REO (F)		*ESTIMATED +INCL ALL PAYS
	2290	10.0			37.0			9	6	160			
	2475	15.0			37.0			14	13	300			
1449	2800	15.0				08-73		5	7	140	PRODUCED (R)		*ESTIMATED
1451	2810	22.0				01-68		2	1	30	PRODUCED (R)		*ESTIMATED
1400	2740	20.0				07-58		1	5	10	UNKNOWN		*EST. TEMP. AHO, 1961-1973
*1458	2190	8.0				6-57	6-63		1	10			*EST. +ADJ. TO 1404 & 1403 1957-63
	2500	18.0							1	10			
*1423	2336	12.0				01-62	1-75	1	2	30	TAR SPRINGS (B)		*ESTIMATED
	2510	15.0						1	2	30			



TABLE 11. Waterflood operations

Field, County Project no. * = ABD. + = P. M.	General information				Production and injection statistics (M bbl)					
	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
					Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
IOLA C, CLAY, EFFINGHAM										
378 CULLUM OIL CO.	MC GEE-HOSS		AUX VASES	22-5N-5E	26*	1091*	1.4*	61*	26*	1091*
1112 GETTY OIL CO	BURK ROYALTY II		BETHEL	27,34-6N-5E	750	7082	8.7	196	255	2346
			AUX VASES							
			SPAR MTN							
* 357 JARVIS BROS.	LIGGETT		AUX VASES	17-5N-5E		201		31		201
1113 KARCHMER PIPE	ERVIN-ETCHASON		BETHEL	34,35-6N-5E	66*	871*	3.0*	148*	66*	871*
			AUX VASES							
1110 LAOD PETROLEUM	S MASON U		BENOIST	26,27,34,35-6N-5E	924	8879	77.2	767	520	4272
			AUX VASES							
			SPAR MTN							
1111 LAOD PETROLEUM	KINGWOOD JARVIS U		BENOIST	34,35-6N-5E	908	10665	30.5	622	605	6399
			AUX VASES							
			SPAR MTN							
1119 E. M. SELF	WRIGHT		AUX VASES	27-6N-5E	300*	1653*	17.3*	139*	300*	1495*
			SPAR MTN							
303 SHAKESPEARE OIL	IOLA COOP		TAR SPRINGS	14,15-5N-5E	365	20006*	11.7	1372*	365	13929*
			CYPRESS							
			BETHEL							
			BENOIST							
			AUX VASES							
* 322 TEXACO, INC.	IOLA COOP		BENOIST	14,15-5N-5E		1589		55		*
* 323 TEXACO, INC.	IOLA COOP		AUX VASES	14,15-5N-5E		3363		85		4414*
338 TEXACO, INC.	IOLA S. U.		AUX VASES	22-5N-5E	104	3560	3.2	112*	111	3207
376 TEXACO, INC.	FENDER, PRATHER, SPURLIN		AUX VASES	2,11-5N-5E	332	1732	10.2	114	551	1514
			SPAR MTN							
IRVINGTON, WASHINGTON										
4020 CULLUM OIL CO.	HOLSHER-MASCHOF-ERBES		CYPRESS	9,10-1S-1W	110*	1185*	6.3*	98*	110*	1185*
			BENOIST							
4026 E M & K OIL CO	KOELLING&STANTON		CYPRESS	23,26-1S-1W	205*	4000*	13.2*	375**	205*	4000*
			BENOIST							
4019 FEAR AND DUNCAN	RAHN-BRINK		BENOIST	14,15,22-1S-1W	250*	4315*	13.6*	295*	250*	4315*
4002 MARK HAZZARINO	ARNING-KASTEN-REICHMAN		CYPRESS	9-1S-1W	200*	2470*	10.2*	234*	200*	2470*
4009 W. C. MCRIE	BROWN UNIT		CYPRESS	23-1S-1W	113	1555	10.3	234	113	1440
			BENOIST							
4018 FRED SEIP	TIEHAN & RUHL		BENOIST	23-1S-1W	485*	7725*	47.0*	494*	485*	7725*
4004 GEORGE THOMPSON	C. KOELLING		BENOIST	15-1S-1W	200*	2468*	13.4*	284*	200*	2028*
IRVINGTON E, JEFFERSON										
2036 N. A. BALORIOGE	WACKER-MILLER		CYPRESS	30-1S-1E	88*	1150*	15.5*	124**	88*	1150*
			BENOIST							
2037 MARK HAZZARINO	HAYES-PITCHFORD-BRESE		BENOIST	30,31-1S-1E	33*	750*	6.0*	152**	33*	750*
2035 E. M. SFL	KOELLING-WACKER			31-1S-1E	60*	1500*	6.1*	266**	60*	1500*
IUKA, MARION										
2613 TEXACO, INC.	IUKA		MCCLOSKEY	10,15-2N-4E	*	*	4.7	97	18	480
JOHNSON N, CLARK										
* 204 F. A. BRIDGE OIL	HLOCK 'A'		CASEY	2-9N-14W		5731*		247*		2713*
* 205 F. A. BRIDGE OIL	HLOCK 'B'		CASEY	35,36-10N-14W		1118*		59*		338
207 NATIONWIDE ENERGY	N JOHNSON		CLAYPOOL	10,11,15-9N-14W	300*	20234*	15.8*	1095*	300*	15278*
			CASEY							
			PARTLOW							
* 211 E. A. OLOFIELD	V. JONES		CASEY	1,3-9N-14W		75		1		2
203 TALBOTT & SONS	N JOHNSON WF		CASEY	2-9N-14W	108*	4799*	6.1*	929*	108*	2335*
* 208 TIDEWATER OIL CO	CLARK COUNTY 1		CASEY	2-9N-14W		2418		160		1572
JOHNSON S, CLARK										
* 212 ACME CASING	M E LARRISON		U PARTLOW	22,27-9N-14W		4424*		163*		3585*
* 213 ACME CASING	WEAVER-BENNETT		U PARTLOW	27-9N-14W		11359*		528*		9879*
209 TALBOTT & SONS	SOUTH JOHNSON (F-12)		U PARTLOW	27,34,35-9N-14W	180*	72689*	11.0*	1703*		
210 FRANCIS ZAKOWSKI	JOHNSON EXT 1, 2		CLAYPOOL	22,23,26,27-9N-14W	15*	26084*	2.0*	880*	15*	19762*
			CASEY							
			PARTLOW							
JOHNSONVILLE C, WAYNE										
4195 N. A. BALORIOGE	TALBERT UNIT		AUX VASES	32-1N-6E	9*	1506*	0.5*	107*	9*	552*
4167 FARRAR OIL CO.	E. JOHNSONVILLE UNIT		AUX VASES	25,36-1N-6E, 1-1S-6E	245*	11171*	18.4*	1125*	245*	5982*
			MCCLOSKEY							
4163 CHRIS PEARSON	LANE-WFAVER		OHAKA	9-1S-6E	92*	2334*	4.7*	242*	92*	2332*
* 4049 TEXACO, INC.	TALBERT		AUX VASES	17-1S-6E		700*		125**		700*
4072 TEXACO, INC.	JOHNSONVILLE SU		AUX VASES	9-1S-6E	998	7664	13.1	416	797	6153
			MCCLOSKEY							
4089 TEXACO, INC.	SIMS UNIT		AUX VASES	21,22,27,28,32,33,34-1S-6E	800*	14886*	58.3*	2669*	1103*	18164*
			MCCLOSKEY		297*	14744*				
4121 TEXACO, INC.	JOHNSONVILLE II		AUX VASES	21,26,27,28,33,34,35-1N-6E, 3,4-1S-6E	3904	55716	118.6	4413	4045	39188
* 4122 TEXACO, INC.	JOHNSONVILLE U.		MCCLOSKEY	3,4-1S-6E, 21,26,27,28,33,34,35-1N-6E		58250		4289		34484
* 4134 UNION OIL CALIF.	CRISP UNIT		AUX VASES	7,8,17,18-1S-6E		8732		1192*		4466
JOHNSONVILLE S, WAYNE										
* 4172 ASHLAND O AND R	W GEF UNIT		AUX VASES	11,14-1S-6E		3295		225		1161
JOHNSONVILLE W, WAYNE										
4061 EGO OIL CO	ORCHAROVILLE		AUX VASES	26-1N-5E	80	415	1.3	23	36	172
4071 EGO OIL CO	JOHNSONVILLE W WF		AUX VASES	33,24-1N-5E	315	1960	14.7	319	271	950
* 4169 FARRAR OIL CO.	W JOHNSONVILLE UNIT		MCCLOSKEY	2-1S-5E, 35,36-1N-5E		2245		183		620
* 4161 KIRBY PETROLEUM	W JOHNSONVILLE		AUX VASES	14,23-1N-5E		1958		347		1000
JOHNSTON CITY E, WILLIAMSON										
4503 C. E. BREHM	HUCK UNIT		AUX VASES	8-8S-3E	230	470	95.7	190		
4501 MUTUAL O AND G	JOHNSTON CITY E II		CYPRESS	15,16-8S-3E	85*	2530*	4.5*	413*		
			AUX VASES							

Illinois, 1977--Continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source:	Type:	
								Inj.	Prod.		SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	(F) = Fresh (B) = Brine (M) = Mixed	
Project no.													
IOLA C, CLAY, EFFINGHAM													
378	2350	12.0				06-65		1	5	60	PRODUCED (R)		*ESTIMATED; W F EFFECT SINCE 1962
1112	2290	40.4	17.3	50	37.5	02-68		5	6	120	PENN SD (R)		
	2350	19.6	16.5	15				3	5	90			
	2440	6.0	16.0					2	3	80			
* 357	2800	10.0			35.4	01-58	07-66	1	3	60	PRODUCED (B)		
1113	2300	12.0				12-67		1	4	70	PRODUCED (B)		*ESTIMATED
	2350	15.0						2	5	70			
1110	2280	25.0				10-67		6	14	190	PENN SD (R)		
	2350	16.0						6	18	270			
	2424	5.0						4	12	160			
1111	2280	25.0				12-67		10	3	200	PENN SD, PROD (R)		
	2350	16.0						11	11	280			
	2424	5.0						4	6	100			
1119	2360					10-69		1	5	80	PRODUCED (B)		*ESTIMATED
	2430							1	6	80			
303	1874	8.0			32.2	01-55		1	1	20	PENN SD, PROD (R)		*ESTIMATED
	2125	10.5	20.0	100				2	4	40			
	2250	17.3	16.0	40				6	5	120			
	2280	20.0	16.0	40				14	17	260			
	2330	20.0	14.7	80				15	18	280			
* 322	2290	9.5	15.7	80	36.0	06-58	01-68	1	2	110	PRODUCED (B)		*INCL WITH 323
* 323	2350	13.3	15.7	80	36.0	06-58	01-68	1	1	190	PRODUCED (B)		*INCL 322
338	2340	8.5	15.1	65	36.0	09-62		1	2	210	PENN SD, PROD (R)		*INCL PRIM PROD SINCE 1962
376	2350	20.0				04-71		4	7	110	PENN SD, PROD (B)		
	2420	8.0						1	4	80			
IRVINGTON, WASHINGTON													
4020	1420	16.0				02-56		1	7	80	PRODUCED (B)		*ESTIMATED
	1520	10.0						1	6	80			
4026	1385	18.0				7-58		1	3	40	PRODUCED (B)		*EST, +INCL PRIM SINCE 1958
	1550	12.0						1	7	80			
4019	1530	10.0				01-56		1	14	160	PRODUCED (R)		*ESTIMATED
4002	1400	20.0			35.0	11-57		4	15	150	PRODUCED (B)		*ESTIMATED
4009	1425	15.0	20.0	300	37.4	09-64		1	5	80	PRODUCED (B)		
	1540	12.0	18.0	65				2	6	80			
4018	1530	10.0				01-56		2	12	140	PRODUCED (B)		*ESTIMATED
4004	1531	10.8	19.0	278	37.2	02-59		2	9	200	PRODUCED (R)		*ESTIMATED
IRVINGTON E, JEFFERSON													
2036	1760	13.0				8-65		1	6	70	PRODUCED (R)		*EST, +INCL PRIM SINCE 1966
	1952	10.0						1	1	20			
2037	1970	7.0				6-60		1	7	80	PRODUCED (R)		*EST, +INCL PRIM SINCE 1960
2035						6-58		1	7	80	PRODUCED (R)		*EST, +INCL PRIM SINCE 1958
IUKA, MARION													
2613	2750	10.0			39.0	08-60		1	3	270	CYPRESS, PROD. (B)		*DUMP FLOOD, UNKNOWN
JOHNSON N, CLARK													
* 204	450	20.0	20.8	399	33.9	04-49	01-63	27	13	125	SH SD, PROD (M)		*NO DATA 1958-1963
* 205	480	2.0	18.3	66	33.0	05-51	12-63	18	12	80	SH SD, PROD (M)		*NO DATA FROM 5-57 TO 80
207	460	19.0	19.0	330		03-55		51	71	223	GRAV, PROD (M) 71		*ESTIMATED
	530	14.0											
	595	24.0											
* 211	440	19.0	19.8	252	35.4	09-51	02-54	3	2	15	SH SAND (F)		
203	475	20.0	20.0	231	32.2	11-53		18	22	240	GRAV, PROD (M)		*ESTIMATED
* 208	425	26.1	20.6	415	33.9	02-50	12-59	19	20	81	SH SD, PROD (M)		
JOHNSON S, CLARK													
* 212	507	33.0	18.0	277		03-55	12-70	2	2	80	GRAV, PROD (M)		*NO DATA 1968-70
* 213	467	35.0	19.0	285		03-55	12-70	6	7	280	GRAV, PROD (M)		*NO DATA 1968-70
209	490	48.0	16.6	319	30.5	03-49		54	62	504	GRAV, PROD (M)		*ESTIMATED SINCE 1970
210	420	15.0	21.0	294		03-55		30	33	479	GRAV, PROD (M)		*ESTIMATED
	465	20.0											
	500	30.0											
JOHNSONVILLE C, WAYNE													
4195	3120	13.0	20.7	230	37.0	01-65		5	5	110	PENN SD, PROD (R)		*ESTIMATED SINCE 1973
4167	3070	17.0	19.0	90	39.2	08-62		10	11	440	CYPRESS, PROD (R)		*ESTIMATED 1977 DATA
	3200	10.0	14.0	100				9	9	380			
4163	3124	6.0	14.2	2454	58.6	06-62		1	5	120	PRODUCED (B)		*ESTIMATED SINCE 1974
*4049	3035	12.0				5-54	12-68	1	2	40	PRODUCED (R)		*EST, +INCL PRIM, 54-68
4072	3000	8.0	18.6	98	37.0	07-69		6	8	230	PRODUCED (B)		
	3100	6.0	12.0	777	37.0			5	3	220			
4089	3045	25.0	16.7	118	38.0	07-67		21	27	1960	PRODUCED (B)		*ESTIMATED FROM TOTAL INJECTION
	3175	17.0	11.0	377	38.0			26	25	1960			*INCL BOTH PAYS
4121	3000	7.5	19.1	187	37.0	10-56		27	28	3230	PENN SD, PROD (R)		
*4122	3100	10.0	15.5		37.0	11-54	02-70	1	18	3230	CYPRESS, PROD (R)		
*4134	3019	17.0	19.0	80		11-57	05-68	10	8	360	PENN SD, PROD (R)		*INCL PRIM PROD SINCE 2-58
JOHNSONVILLE S, WAYNE													
*4172	3050	11.0	20.3	82	39.0	05-63	08-70	11	12	480	PENN SD (R)		
JOHNSONVILLE W, WAYNE													
4061	2890	10.0	19.4	175		09-73		1	1	40	PENN SAND, PROD (R)		
4071	2916	7.0			38.0	08-71		3	9	160	PENN SAND (R)		
*4169	3072	11.0	13.5	200	37.0	10-63	01-72	2	4	150	PENN SD, PROD (R)		
*4161	2900	12.0	19.0	92	39.0	05-62	06-69	5	5	170	PENN SD, PROD (R)		
JOHNSTON CITY E, WILLIAMSON													
4503	2580	19.0	16.0		39.0	8-75		2	5	100	PENN SD (R)		
4501	2300	20.0	14.8	80		02-67		4	5	90	CYPRESS SD (B)		*ESTIMATED 1977 DATA
	2580	6.0	12.2	14				2	5	70			



TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
JOHNSTON CITY N E											
4505 BUFAY OIL CO		HAJISON COAL LEASE	AUX VASES	3,4-8S-3E		3	38	6.3	145	3*	38*
JUNCTION, GALLATIN											
*1412 ESTELLE PRICE		JUNCTION UNIT	WALTERSBURG	16,17,20,21-9S-9E			2357*		303*		
JUNCTION E, GALLATIN											
1441 E.E. MORRIS		CRANE U	WALTERSBURG	36-8S-9E,1-9S-9E		100*	795*	5.9*	57*	100*	601*
JUNCTION N, GALLATIN											
1445 OIL MANAGEMENT INC		HISH LSE	PENNSYLVNIN	33-8S-9E		10*	476*	0.4*	28*	10*	49*
KEENSBURG S, WARASH											
3867 ALVA C. DAVIS		GARST-EPLER	CYPRESS	34,35-2S-13W		90	1831	8.6	205	6*	770
3991 HERMAN LOEB		FEARHEILEY-THOM-UTLEY	PENNSYLVNIN	10-3S-13W		270*	4348*	12.4*	336*	270*	2782*
*3915 VICKERY OILG.		A P GARST	CYPRESS	27-2S-13W			297		27		60*
KEENVILLE, WAYNE											
*4125 N. A. BALDRIDGE		KEENVILLE UNIT	MCCLOSKEY	27,28,33,34-1S-5E			2137		232		1570
*4126 WALTER DUNCAN		KEENVILLE U		28,29-1S-5E			1971		343		660
KENNER, CLAY											
* 305 TEXACO, INC.		KENNER U	RENDIST	25,36-3N-5E,			4349		374		1722
			AUX VASES	30,31-3N-6E			5363		117		1270
* 353 TROOP DRILLING		CHASTEEN	RENDIST	36-3N-5E			45		8		45
			RENAULT	AUX VASES							
KENNER N, CLAY											
* 324 IND. FARM BUR.		THORHALD	RENDIST	17-3N-6E			21		53		47*
KENNER W, CLAY											
* 306 PHILLIPS PET. CO		W KENNER U	CYPRESS	23-3N-5E			16531		535		4799
			RENDIST								
			AUX VASES								
KINCAID C, CHRISTIAN											
106 JOE SIMPKINS OIL		KINCAID U	HIBBARD	2-419-11114-16,22- 13N-3W134,35-14N-3W		2757	5681*	104.6	229**	137*	2000*
KING, JEFFERSON											
*2016 N. A. BALDRIDGE		EMER-GOFF	AUX VASES	22-3S-3E			91*		1		81
2017 T. L. CLARK		HANDOLPH	AUX VASES	27,34-3S-3E		30*	1312**	1.6*	197**	30*	1316**
2025 SHAKESPEARE OIL		MADE UNIT	AUX VASES	33,34-3S-3E		18	259	2.2	138**	18	259*
*2013 TEXACO, INC.		BAKER-BUMPUS-SMITH	AUX VASES	33,34-3S-3E			1911		62		419
LANCASTER, LAWRENCE, WARASH											
3881 NICK RAHAR		SHARP WOOD	BETHEL	4-1N-13W		8*	803*	0.5*	144*	8*	229*
3954 HAYES-WOLFE BROS		LANCASTER UNIT	BETHEL	4,9-1N-13W133-2N-13W		30*	5452*	1.6*	1240*	30*	1411*
2255 STONE OIL CO		HELENA	SPAR MTN	16,21-2N-13W		200*	1479*	10.6*	520*	200*	695*
LANCASTER E, LAWRENCE, WARASH											
*3984 COY OIL CO		FRIENDSVILLE U	RIEHL	25,36-2N-13W			232*		17*		51*
LANCASTER S, WARASH											
3846 HOCKING OIL		FRIENDSVILLE W UNIT	BETHEL	21,28-1N-13W		65*	185*	12.9*	34*	65*	185*
3916 HERMAN LOEB		LANCASTER SOUTH	BETHFL	21-1N-13W		12*	645*	0.7*	118*	12*	288*
LAWRENCE, LAWRENCE, CHAWFORD											
2257 ACME CASING		LEWIS	CYPRESS	24-3N-12W		200*	1220*	11.9*	128*	170*	1190*
2215 ASHLAND O AND R		ROLLES-WRIGHT UNIT	BETHFL	7,8,17-4N-12W		39	1589	2.6	60	24	283
2242 BALDWIN, BALDWIN		O'DONNELL	CYPRESS	17-3N-12W		300*	4184*	10.6*	434*	200*	1416*
2291 BALDWIN, BALDWIN		CUMMINS	BRIDGEPORT	6-3N-12W		650*	5710*	45.8*	363*	650*	4886*
			CYPRESS								
2269 FRANCIS HEARD		JENNER	CYPRESS	36-3N-12W		145*	6379*	6.4*	330*	145*	3359*
			BETHEL								
*2200 CALVAN AMERICAN		PIPER	CYPRESS	2,11-4N-13W			146		6		
*2229 CALVAN AMERICAN		WALLER	CYPRESS	5,6-2N-11W			828		12		144*
2208 CHARLES E. CARR		CRUMP *40*	CYPRESS	19-4N-12W		45*	2232*	1.4*	282*	45*	3198*
2209 CHARLES E. CARR		CRUMP UNIT	CYPRESS	31-4N-12W		25*	2342*	1.2*	172*	25*	1724*
2236 CHARLES E. CARR		L GILLESPIE	BRIDGEPORT	26,35-3N-12W		30*	9607*	4.3*	855*	120*	7934*
			CYPRESS			60*	9865*				
			BETHEL			30*	1873*				
2241 CHARLES E. CARR		FYFFE	CYPRESS	6-3N-12W,1-3N-13W		18*	6349*	0.7*	463*	18*	2366*
2244 CHARLES E. CARR		BRIDGEPORT UNIT	CYPRESS	6-3N-12W		82*	6867*	4.0*	1157*	90*	5007*
2245 CHARLES E. CARR		S GILLESPIE	CYPRESS	26-3N-12W		180*	2664*	6.4*	211*	180*	1221*
			BETHEL								
2252 CHARLES E. CARR		BOWER-ROSS	CYPRESS	29-4N-12W		350*	3333*	18.5*	256*	350*	2792*
2253 CHARLES E. CARR		FYFFE *39*	CYPRESS	31-4N-12W		135*	2634*	6.9*	217*	135*	2255*
2258 CHARLES E. CARR		COOPER-DAVIS	CYPRESS	6,7-3N-12W		25*	2113*	1.3*	163*	25*	2198*
2262 CHARLES E. CARR		FYFFE U	CYPRESS	36-4N-13W		78*	2696*	3.4*	197*	78*	1860*
*2270 CHARLES E. CARR		GRAY FEE W F	CYPRESS	1-2N-12W			1554*		93*		518*
			BETHFL								
2276 CHARLES E. CARR		WITHERS-PELHAM-STATE	CYPRESS	36-3N-12W		35*	2824*	2.0*	280*	35*	1756*
			BETHEL								
*2205 WALTER DUNCAN		L.C. DAVIN	SAMPLE	8-3N-11W			56				8
*2206 T. W. GEORGE EST.		KLONDIK WF	BETHEL	25,26,35,36-5N-13W			9990		1098		3338*
2261 FRANCIS GILLESPIE		HUCHANAN,BREEN,RIDGLY	BRIDGEPORT	10,11-2N-12W		35*	600*	5.0*	100*	35*	400*
			RIEHL								
*2280 GULF OIL CO		M E GRIGGS	CYPRESS	18-3N-12W			245		6		2
			RENDIST								
2211 GAIL HEATH		STOLTZ	BRIDGEPORT	32-4N-12W		120*	14854*	4.6*	1074*	120*	8466*
			CYPRESS								
2240 D. S. HUDDLESTON		VANDERMARK-ALBRECHT	BRIDGEPORT	34-3N-12W		237	3832*	12.8	454*	237	2767*
			CYPRESS								
*2224 ILLINOIS OIL CO.		FINLEY U	CYPRESS	25-3N-12W			748		38		652
			BETHFL								
2225 ILLINOIS OIL CO.		GEE-IRWIN U	CYPRESS	36-3N-12W		60*	684*	2.5*	45*	60*	536*

Field, County  Project no.	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks	
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SO = Sand GRAV = Gravel PROD = Produced SH = Shallow		Type: (F) = Fresh (B) = Brine (M) = Mixed
								Inj.	Prod.				
JOHNSTON CITY N E 4505	2824	22.0			40.0	2-71		1	4	50	PRODUCED (B)	*ESTIMATED	
JUNCTION, GALLATIN *1412	1720	14.0	16.0	22	36.0	05-51	04-71	5	6	110	SH SO (E)		*EST 1965-66; NO DATA 1967-71
JUNCTION E, GALLATIN 1441	2000	15.0	17.0	50		03-68		4	5	100	PENN SO, PROD (M)		*ESTIMATED SINCE 1971
JUNCTION N, GALLATIN 1445	1560	7.0				09-70		1	3	40	SHALLOW SO (E)		*ESTIMATED
KEENSBURG S, WABASH 3867	2398	12.0			37.8	10-64		3	4	90	SH SO, PROD (M)		
3991	1181	13.0	15.0	42	32.5	12-62		5	9	130	SH SO, PROD (M)		*ESTIMATED SINCE 1971
*3915	2403	15.0	20.6	134	37.5	11-54	12-59	1	1	60	SH GRAV (F)		*ESTIMATED
KEENVILLE, WAYNE *4125	3100	9.0			40.0	11-56	03-66	3	12	220	SH SO, PROD (M)		
*4126	2950	13.0	20.0	155	39.0	04-54	11-61	3	9	120	SH SO (F)		
KENNER, CLAY *305	2700	14.0	15.6	54	36.0	06-59	12-74	23	24	480	PENN SO, PROD (B)		
	2800	21.0	17.0		36.0	06-59	10-67	1	8	270			
*353	2719	29.0			35.8	08-63	07-68	1	1	20	PRODUCED (B)		
	2774	18.0						1	1	20			
	2831	13.0						1	1	20			
KENNER N, CLAY *324	2750	10.0	17.0	40	36.0	10-58	12-63	1	3	30	PRODUCED (B)		*ESTIMATED
KENNER W, CLAY *306	2600	13.0			37.5	02-52	06-68	11	15	280	PRODUCED (B)		
	2720	14.0						6	11	200			
	2800	16.0						1	5	70			
KINCAID C, CHRISTIAN 106	1860	10.0				10-74		16	30#	700	PRODUCED (B)		*CORRECTED; *INCL PRIM PROD *PARTIAL DEVELOPMENT TO DATE
KING, JEFFERSON *2016	2700	7.0				01-63	11-68	1	3	40	PRODUCED (B)		*WATER INJ INEFFECTIVE
2017	2700	20.0				06-64		3	5	80	CYPRESS, PROD (B)		*EST SINCE 1967; *INACTIVE 1974
2025	2708	10.0	12.0	16		11-64		1	4	80	PRODUCED (B)		*EST; *INCL PRIM PROD
*2013	2735	11.0			37.0	05-61	02-70	3	2	160	PRODUCED (B)		
LANCASTER, LAWRENCE, WABASH 3881	2540	21.0	17.0	65	37.5	07-64		2	3	40	PRODUCED (B)		*ESTIMATED SINCE 1971
3954	2500	16.0			34.0	12-58		21	34	500	SURF POND, PROD (M)		*ESTIMATED
2255	2720	7.0				07-71		4	8	300	PENN SO (B)		*ESTIMATED 1977 DATA
LANCASTER E, LAWRENCE, WABASH *3984	1740	9.0			30.6	01-71	01-75	1	2	30	SHALLOW SAND, PROD (M)		*ESTIMATED
LANCASTER S, WABASH 3846	2495	13.0				11-73		1	6	70	PRODUCED (B)		*ESTIMATED
3916	2520	10.0			36.0	01-55		2	6	80	PRODUCED (B)		*ESTIMATED
LAWRENCE, LAWRENCE, CRAWFORD 2257	1580	20.0				06-67		9	7	180	PENN SO (B)		*ESTIMATED
2215	1680	10.0	15.0	20	38.0	07-66		4	8	120	PURCHASED (F)		
2242	1500	28.0	16.7	15	38.0	04-59		9	7	160	BUCHANAN, PROD (B)		*ESTIMATED SINCE 1976
2291	980	30.0				01-58		4	10	80	PRODUCED (B)		*ESTIMATED SINCE 1976
	1440	30.0						4	10	80			
2269	1540	25.0	15.0	30		11-62		11	10	100	GRAV, PROD (M)		*ESTIMATED
	1620	25.0	15.0	30				11	10	100			
*2200	1520	25.0	20.8	33	38.6	12-53	06-56	4	2	60	SH SO (F)		
*2229	1535	50.0	18.5	70	39.5	03-53	11-55	8	8	160	SH GRAVEL (F)		*ESTIMATED
2208	1280	25.0	20.0	90		04-56		4	4	40	PENN SO, PROD (B)		*ESTIMATED
2209	1420	22.0	20.0	80		12-56		5	4	40	PENN SO, PROD (B)		*ESTIMATED SINCE 1969
2236	990	30.0	19.3	200	37.0	11-58		16	10	100	GRAV BED, PROD (M)		*ESTIMATED
	1550	28.0	17.0	35				17	10	100			
	1660	10.0	16.5	25				17	10	100			
2241	1580	35.0	18.0	100	35.0	07-59		10	4	45	BUCHANAN SO, PROD (B)		*ESTIMATED
2244	1575	25.0	18.0	80	38.0	06-59		9	10	150	PENN SO, PROD (B)		*ESTIMATED
2245	1550	28.0	17.0	35	39.0	10-60		8	6	50	RIVER, PROD (M)		*ESTIMATED
	1660	10.0	16.5	25	39.0			8	6	50			
2252	1320	20.0	19.0	120		08-58		4	6	60	PENN SO, PROD (B)		*ESTIMATED SINCE 1971
2253	1420	20.0	20.0	80		12-56		3	4	40	PENN SO, PROD (B)		*ESTIMATED
2258	1620	15.0				06-63		3	5	90	PENN SO, PROD (M)		*ESTIMATED
2262	1650	25.0	18.0	130		12-60		8	4	80	PENN SO, PROD (B)		*ESTIMATED
*2270	1545	25.0			37.0	07-61	07-74	3	5	60	SH SO, PROD (M)		*ESTIMATED
	1670	10.0						3	5	60			
2276	1564	20.0	16.9	41	38.5	02-63		8	8	80	SH SO, PROD (M)		*ESTIMATED SINCE 1970
	1690	12.0	15.0	17				8	8	80			
*2205	1600	6.0				08-56	09-58	1	1	20	RIVER GRAVEL (F)		
*2206	1625	18.0	17.2	80	37.8	06-52	12-60	44	36	750	SH SO, PROD (M)		*ESTIMATED
2261	980	14.0				6-63		5+	10+	150+	PENN, PROD (M)		*ESTIMATED; NO DATA RECEIVED *INCL BOTH PAYS
	1220	12.0				4-73							
*2280	1586	16.0	16.7	21	38.0	04-63	12-67	1	1	10	PRODUCED (B)		
	1746	12.0	16.0	27				1	1	10			
2211	860	25.0	22.3	15	37.0	01-55		10	8	25	GRAV, PROD (M)		*ESTIMATED SINCE 1968
	1400	18.5	17.3	18	37.0			4	8	25			
2240	988	24.0	21.0	398	29.5	08-58		3	7	70	LAKE, PROD (M)		*ESTIMATED
	1648	15.0			39.8			1	3	40			
*2224	1600	12.0	17.0	50	36.0	01-67	01-72	3	8	80	SH WELL (F)		
	1700	8.0	15.0	35				1	3	40			
2225	1530	20.0	18.0	100	36.0	02-67		1	1	20	PRODUCED (B)		*ESTIMATED SINCE 1972

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
LAWRENCE, LAWRENCE, CRAWFORD CONTINUED											
2225	ILLINOIS OIL CO.			BETHEL							
2226	ILLINOIS OIL CO.	DINING HEIRS		MCCLOSKEY	36-3N-12W	65*	1062*	3.3*	104*	65*	1155*
2227	ILLINOIS OIL CO.	MCCROSKEY HRS		CYPRESS							
2277	ILLINOIS OIL CO.	BUNKER HILL U		BETHEL	25-3N-12W	115*	963*	6.2*	92*	115*	931*
2203	J&W EQUIPMENT	BRIDGEPORT S U		BRIDGEPORT	12-2N-12W	160*	3611*	5.7*	176*	160*	1662*
2281	JENNY LEE OIL CO	CALVERT-MUSGRAVE		BETHEL	19-3N-12W	230*	1676*	18.8*	154*	146*	636*
2273	HERMAN LOEB	LOEB AND MCPHERSON		BRIDGEPORT	3-3N-12W	*	7*	*	*	*	*
2275	HERMAN LOEB	BURNS, GRIGGS, ZELLARS		CYPRESS	14, 15, 22-3N-12W	78*	3420*	4.2*	351*	78*	2014*
2213	MARATHON OIL CO.	17 PROJECTS*		BETHEL							
2214	MARATHON OIL CO.	9 PROJECTS*		BRIDGEPORT	A-3N-12W	115*	10742*	6.0*	625*	115*	5838*
2216	MARATHON OIL CO.	4 PROJECTS *		CYPRESS							
2234	MARATHON OIL CO.	ST LOUIS WF 11-M		JACKSON	T3, 4N-R12, 13W	16479	387423	854.3	50335	15495	284036
2247	MARATHON OIL CO.	HARDINSBURG WF 37-M		BETHEL							
2279	MARATHON OIL CO.	RIDGLEY 41-P		BRIDGEPORT	T 3, 4N R 12, 13W	15522	220172	1246.2	19809	13843	176771
2294	MEPCO, INC.	GEE HRS		MCCLOSKEY	T 3, 4N R 12, 13W	3061	60433	66.7	4860	1854	42908
*2204	W. C. MCBRIE	APPELGATE		BETHEL							
2210	W. C. MCHWIDE	NEAL		ST LOUIS	30-4N-12W	105	401	1.0	4	7	18
2219	W. C. MCHRIE	ROGERS		HARDINSBURG	27, 34-3N-12W	414	2951	26.3	591	322	1556
*2249	W. C. MCBWIDE	HINKLE		RIDGLEY	26, 34, 35-3N-12W	654	8240	37.0	1239	494	5535
*2251	W. C. MCBRIE	COMBS		CYPRESS	19-3N-11W/24-3N-12W	35*	55*	4.2*	6*	35*	55*
2254	W. C. MCHRIE	DALRYMPLE		JACKSON	7-4N-12W, 12-4N-13W		4468		228		3476
2285	W. C. MCBRIE	HINKLE		CYPRESS							
2207	NATIONWIDE ENERGY	GRAY AREA		MCCLOSKEY							
2266	NATIONWIDE ENERGY	KIRKWOOD-MCPHERSON		BRIDGEPORT	29-4N-12W	406	8540	16.6	880	288	5734
*2243	OILFIELD DRG.	BELL UNIT		JACKSON							
2271	DAVID PHILLIPS	BRUNSON-PAYNE-FAITH		CYPRESS							
2274	BERNARD PODOLSKY	GILLESPIE AND CALVERT		BETHEL	14-3N-12W	124	1890	4.7	236	125	1667
2237	A. BRANOT POWELL	STOLTZ HEIRS		MCCLOSKEY	26-3N-12W		175		24		223
*2230	REE, INC.	SNYDER		CYPRESS	20-4N-12W		779		65		339
*2222	HUBERT ROSE	LEIGHTY		BETHEL	29-4N-12W	174	5310	4.4	519	156	3689
*2217	SHAKESPEARE OIL	S H*PORT U C MILLER C		CYPRESS							
2288	JOE SIMPKINS OIL	COLLINS SCHL		BETHEL	29-4N-12W						
2202	WAYNE SMITH, OP.	C M PERKINS		RENOIST	26-3N-12W	243	3258	10.7	485	326	3371
2220	WAYNE SMITH, OP.	BUCHANAN		BRIDGEPORT	26-3N-12W						
2221	WAYNE SMITH, OP.	OSCAR LEIGHTY		CYPRESS							
2233	WAYNE SMITH, OP.	PEPPE		BETHEL	13, 14-4N-13W	60*	8067*	4.8*	738*	60*	5650*
2238	WAYNE SMITH, OP.	L M SEED		RENOIST							
2256	WAYNE SMITH, OP.	HREEN		CYPRESS	11, 12, 13, 14-3N-12W	180*	3240*	16.1*	259*	180*	3180*
2259	WAYNE SMITH, OP.	WHITTAKER AREA		CYPRESS	1-3N-13W		2429*		172*		998*
2260	WAYNE SMITH, OP.	E J SEED		BETHEL	18, 19-3N-11W	70*	485*	5.6*	36*	70*	430*
2265	WAYNE SMITH, OP.	PIPEW-DROLL AREA		CYPRESS	15, 22-3N-12W	*	1227*	1.2	178	18	561
2272	WAYNE SMITH, OP.	HAYWARD AREA		JACKSON	25-4N-13W	90	1869*	2.8	353*	90	907*
*2286	WAYNE SMITH, OP.	BUCHANAN AREA		CYPRESS							
*2289	WAYNE SMITH, OP.	W.F. GOULD UNIT		BETHEL	30-3N-11W		16		1		69
*2223	TEXACO, INC.	LAWRENCEVILLE FEE		CYPRESS	32-3N-11W		117*		2*		117*
2239	ZANETIS OIL PROP	WAYNE HEIRS		BETHEL	20, 29, 30-3N-12W		4902		536		2057
*2264	ZANFTIS OIL PROP	CASSIL		CYPRESS	6-2N-11W/31-3N-11W	85*	1610*	4.9*	113*	85*	1315*
2282	ZANETIS OIL PROP	CARLSON		SAMPLE	1-2N-12W						
*2283	ZANETIS OIL PROP	HUDSON WF		BRIDGEPORT	32-4N-12W	299	17196	9.4	875	290	5901
2292	ZANETIS OIL PROP	W.H. & G. GILLESPIE		CYPRESS							
				BETHEL	7-3N-12W	175	3675	6.7	463	168	1081
				RENOIST							
				CYPRESS	31-3N-11W	91	2020	1.0	73	90	1652
				BETHEL	30-4N-12W	+	9826+	3.4	992	60*	4897*
				CYPRESS	21-3N-12W	64	3371	*	15*	64	2339
				BETHEL	24, 25-4N-13W	*	2606	*	177	*	1027
				CYPRESS							
				BETHEL	2, 10, 11-3N-12W	117	11606	15.1	1467	101	5629
				JACKSON	15, 16, 22-3N-12W	123	2243	11.6	182	111	1159
				CYPRESS							
				JACKSON	1, 2, 11, 12-4N-13W	529	14047	30.3	1781	498	6976
				CYPRESS	35, 36-5N-13W						
				BETHEL							
				RENOIST							
				CYPRESS	25, 26-3N-12W	37	2934	19.1	668	17	2212
				BETHEL							
				BRIDGEPORT	2-2N-12W		190		1		2
				CYPRESS	31-3N-12W		1930		5		1539
				CYPRESS	7, 18-3N-11W		524		13		134
				AUX VASES	28-3N-11W	14	331	2.0	44	14*	331*
				MCCLOSKEY							
				CYPRESS	36-4N-13W		62		57		197
				BUCHANAN	15-3N-12W	235	3732	7.7	358	235*	3732*
				CYPRESS							
				BETHEL							
				MCCLOSKEY							
				CYPRESS	18-3N-11W		718*		47*		718*
				BUCHANAN	15-3N-12W	273	1474	8.7	404**	273*	1474*
				CYPRESS							

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks		
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source:		Type:	
								Inj.	Prod.		SD = Sand GRAV = Gravel PROD = Produced SH = Shallow		(F) = Fresh (B) = Brine (M) = Mixed	
Project no.														
LAWRENCE, LAWRENCE, CRAWFORD														
LAWRENCE, CONTINUED	2225	1630	15.0	16.0	50			1	1	20				
		1780	10.0	15.0				1	1	20				
	2226	1550	12.0	18.0	100	12-65		1	2	20	PRODUCED (H)		*ESTIMATED SINCE 1972	
		1650	10.0	16.0	70			1	2	20				
	2227	1600	15.0	18.0	75	36.0	01-66	1	2	10	PRODUCED (H)		*ESTIMATED SINCE 1972	
		1725	10.0	15.0	50			1	2	10				
	2277	975	10.0	19.0	350	35.0	02-64	1	2	40	SH SD (F)		*ESTIMATED SINCE 1972	
		1775	8.0	14.0	25	38.0		4	7	100				
	2203	2000	18.0	17.5	45	37.0	09-70	4	10	110	PENN SD (H)			
	2281	1019	15.0				06-62	1	2	30	SH SD, GRAVEL (F)		*NO DATA SINCE 1965	
	2273	1535	15.0	18.5	40	30.0	12-62	7	8	180	BUCHANAN, PROD (H)		*ESTIMATED SINCE 1972	
		1650	10.0	18.0	15			6	5	120				
	2275	850	20.0	21.0	131	30.9	11-56	4	6	50	BUCHANAN, PROD (H)		*ESTIMATED SINCE 1969	
		1440	20.0					5	7	60				
	2213	1375				01-52		48A+	596+	1600+	PROD, FRESH WSW (M)		*JUDY, WESTALL, KING, SUTTON, KIMMEL HOYO, MIDDAGH, NEWELL, MOORE, THORN GOULD, SFO, GRAY, RYAN, LEIGHTY, JENNER, WISE-GRAY *ESTIMATED	
		1430	10.0					560+	550+	5600+				
		1530	10.0					220+	220+	2400+				
		1600	8.0					30+	30+	300+				
	2214	800	30.0			35.6	08-48	276	393	2096	GRAV, PROD (M)		*ROBINS, JOHNSON, KLINGLER, COOPER, HALTZELI, LEWIS, CLARK, FINLEY, GEE *APPLEGATE, WILLIAMS, GILLESPIE, VANDERHANK	
	2216	1700	20.0		1500		11-56	35	52	1637	GRAV, PROD (M)			
	2234	1950	30.0			12-75		4	2	40	PRODUCED (H)			
	2247	1350	13.0			09-71		13	10	290	PROD & FRESH (M)			
	2279	1230	16.0	17.0	400	08-64		27	30	584	GRAV, PROD (M)			
	2294	1625	15.0			6-76		2	9	110	PRODUCED (H)		*ESTIMATED	
	*2204	1240	10.0	19.0	80	34.7	09-52	15	14	180	GRAV, PROD (M)			
		1350	15.0	17.0	30			8	8	60				
		1635	3.0	23.0	40			10	10	40				
	2210	970	15.0	20.0	200		05-56	1	1	20	PENN SD, PROD (H)			
		1330	6.0	18.0	40			8	8	80				
		1390	23.0	19.0	20			8	8	80				
		1470	18.0	17.0	20			2	2	40				
	2219	1530	12.0	16.0	30		08-66	4	6	50	PENN SD, PROD (H)			
		1620	10.0	15.0	20			4	5	40				
	*2249	1775	15.0	20.0	175		08-59	01-66	1	4	40	PENN SD, PROD (H)		
	*2251	1450	20.0	18.0	50		03-59	02-71	1	1	60	PENN SD, PROD (H)		
		1630	10.0	12.0	10			07-66	2	2	20			
	2254	1450	6.0	19.0	80		03-68	1	1	10	PENN SD, PROD (H)		MOST OF THE WATERFLOOD EFFECT HAS BEEN IN JACKSON AND CYPRESS	
		1500	20.0	19.0	80		04-59	3	3	70				
		1575	10.0	16.0	35		04-59	3	5	70				
		1650	13.0	15.0	25		04-59	6	6	70				
	2285	1000	10.0	18.0	100		11-63	2	2	40	PENN SD, PROD (H)			
		1550	17.0	18.0	50			4	3	80				
		1660	12.0	15.0	20			5	7	80				
	2207	1412	8.0	13.5	9		05-53	10	10	200	BRIDGEPORT, PROD (H)		*ESTIMATED	
		1577	11.0	21.0	40			10	10	200				
		1622	16.0	18.5	46			8	7	150				
	2266	1540	20.0				10-64	6	17	280	SH SD, PROD (M)		*ESTIMATED	
	*2243	1650	20.0	18.0	80	38.0	06-59	03-66	2	1	80	PENN SD, PROD (H)		*1966 DATA ESTIMATED
	2271	1560	16.0				10-69	3	11	130	SH SD, PROD (M)		*ESTIMATED	
	2274	1590	14.0	18.5	40	30.0	11-62	4	7	100	BUCHANAN, PROD (H)		*INJ. CUMULATED MARCH 1974	
	2237	1440	6.0	20.0	85	38.0	07-58	1	2	30	PENN SD, PROD (H)		*ESTIMATED	
		1550	14.0					3	8	130				
		1680	20.0					1	1	20				
	*2230	1580	25.0	21.2	125	38.6	10-52	01-55	1	2	10	TAR SPR, PROD (H)		
	*2222	1610	9.0			36.0	02-66	07-74	1	2	30	PENN SD, PROD (H)		*EST. 1968-1971; INJ. SUSP. 1972
	*2217	1800	12.1	17.1	70	38.0	10-56	12-66	20	18	313	TAR SPRINGS (H)		
	2288	1550	15.0				01-69	17	20	350	PENN SD, GRAV (M)		*ESTIMATED	
		1620	10.0					19	25	450				
	2202	900	14.0	18.0	125	36.0	02-55	19	10	100	BUCHANAN SD, PROD (H)			
		1350	20.0	18.0	100			19	10	100				
	2220	1570	28.0	17.9	64	37.0	12-65	4	1	60	GRAVEL BED (F)			
		1670	9.0	15.9	37			2	2	40				
		1730	9.0	12.5	2			3	4	80				
	2221	1650	15.0	16.5	50	39.0	01-66	5	7	60	RIVER GRAV, PROD (M)			
	2233	1400	30.0	18.0	75	37.0	06-57	21	17	130	BUCHANAN SD, PROD (H)		*EST. SINCE 1974; +INJ. DISC. 1976	
		1650	20.0	14.0	10	39.2		6	7	50				
	2238	1630	22.0	74.0	18	33.0	03-67	3	1	20	SH SD (F)		*INACTIVE SINCE 1974	
	2256	1530	20.0	16.0	47	37.0	05-60	6	5	70	BUCHANAN SD, PROD (H)		*INACTIVE SINCE 1976	
		1675	20.0	12.0	5	37.0		6	5	70				
	2259	1520	20.0	18.0	35		11-60	26	26	650	RIVER, PROD. (M)			
		1630	15.0					26	26	650				
	2260	1500	5.0				02-61	3	2	40	SH SD (F)			
		1590	16.0					1	2	30				
	2265	1310	12.0	18.0	30	38.0	12-61	22	24	500	RIVER, PROD (M)			
		1400	10.0	18.0	35	38.0		21	23	480				
		1525	6.0					8	8	160				
		1585	5.0					6	6	120				
	2272	1575	25.0	16.0	20	39.5	12-63	6	16	120	BRIDGEPORT, PROD (H)			
		1650	14.0					6	16	120				
	*2286	950	40.0	19.0	100	31.0	07-63	2	2	40	SH SD (F)			
	*2289	1590	20.0	19.0	75	30.0	09-65	8	8	180	PENN SD, PROD (H)			
	*2223	1560	10.0	17.0	20	37.0	02-70	06-73	4	6	160	PROD, SUPPLY (M)		
	2239	1838	8.0	20.0	2	38.5	03-65	1	3	50	PRODUCED (H)		*ESTIMATED	
		1919	5.0	15.0	23			1	3	50				
	*2264	1640	19.0			38.6	09-62	12-66	1	3	40	SH SD, PROD (M)		
	2282	1300	15.0				04-71	2	2	40	PRODUCED (H)		*ESTIMATED	
		1516	31.0	16.0	14	36.7	07-64	9	9	180				
		1622	22.0					1	2	40				
		1770	5.0	15.0	2			2	4	100				
	*2283	1597	18.0	20.8	121	36.1	05-64	1-77	3	5	40	PRODUCED (H)		*ESTIMATED 1975-76
	2292	1290	20.0				12-72	4	15	150	PRODUCED (H)		*EST. + INCL. PKIM, PROD. SINCE 1965	
		1580	25.0					4	4	80				



TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
LAWRENCE W, LAWRENCE											
*2250 ACME CASING		S SUMNER UNIT	BETHEL	14,23,24-3N-13W		1191		186		285	
2235 N. A. BALO9IUGE		LAWRENCE WEST	BETHE	23,24,25-3N-13W	100*	280*	5.5*	21*	100*	280*	
LEXINGTON, WABASH											
3858 SO. TRIANGLE CO.	LEXINGTON U		MCCLOSKEY	26-1S-14W	95*	2562*	4.4*	65*	95*	730*	
LILLYVILLE, CUMBERLAND, EFFINGHAM											
704 ROYALCO, INC.	KRUGMAN		MCCLOSKEY	31-9N-7E	110	2271	6.5	294	80	787	
LIVINGSTON, MADISON											
*2500 WILLIAM H. KROHN	KROGER		PENN	17-6N-6W		67		3			
*2501 M. W. MCCONNELL	C. AND O. HENKE UNIT		PENN	17,20-6N-6W		104		25			
*2502 CHARLES P. WOOD	KROEGE9		PENN	17-6N-6W		37*		3*			
LIVINGSTON S, MADISON											
2508 Q. CHOISSE9	QUADE-REPOUSCH		BETHEL	21,22-6N-6W	40*	685*	1.4*	47*	40*	605*	
2509 HOWA90 CLEFF	HEST-KERIN-LEITCH		PENN	27,34-6N-6W	95*	890*	4.8*	79*	95*	740*	
2507 FAIRFIELD OIL CO	HLOM-FLOWLER-QUFHROP		PENN	27-6N-6W	25	698*	5.3	99*	5	14*	
LOCUST GROVE, WAYNE											
*4085 ZANETIS OIL PROP	DAURS R		AUX VASES	31-1N-9E		399*		25*		150*	
LOUDEN, EFFINGHAM, FAYETTE											
1252 N. A. HALORIDGE	LOUDEN **		CYPRESS	77,8N-93,4E	200*	1972*	21.0*	308*	200*	2300*	
			BETHEL								
1230 BARGER ENG	SINCLAIR		CYPRESS	29-8N-3E	174	4971	5.3	748	174	4910	
			BETHEL								
1243 BARGE9 ENG	WELKER		CYPRESS	31-7N-3E	206	1699	5.5	644	206	4434	
*1201 W. L. BELDEN	HINTON U		CYPRESS	32-7N-3E		100		11			
1202 W. L. HELOEN	UNIT 25		CYPRESS	24,25-8N-3E	93	6830	4.6*	592**	93*	6428*	
1209 W. L. HELOEN	H. F. OWENS		CYPRESS	9-7N-3E	+	757*	2.6*	230*	60*	1200*	
1213 W. L. HELOEN	E.C. SMITH		CYPRESS	20-7N-3E	94	1533	4.0*	448*	94*	2461*	
1226 W. L. HELOEN	SATHEP		CYPRESS	16,17-7N-3E	139	1608	7.6*	389*	160*	1072*	
1203 D. L. BURTSCI EST.	D.L. BURTSCI U		CYPRESS	18-7N-3E	95*	1250*	5.1*	224*	95*	730*	
1207 REVIS O. CALVERT	HOMAN		CYPRESS	29,31,32-7N-3E	+	16305*	5.3*	1958*	70*	11969*	
1215 REVIS O. CALVERT	KOEKLIEN		CYPRESS	30-7N-3E	23*	2786*	0.7*	515*	23*	1870*	
1217 REVIS O. CALVERT	STOKES-WEILFR		CYPRESS	14-8N-3E	+	2610**	+	429**	+	1255**	
1233 REVIS O. CALVERT	SAPP		CYPRESS	18-7N-3E	10*	1876*	0.7*	159*	10*	708*	
1255 OOKAN OIL PROP.	J.W. ARNOLD		CYPRESS	19-7N-3E	65*	1640*	3.1*	109**	65*	1640*	
1204 EYXON	LOUDEN		CYPRESS	T 7,8,9N-R 2,3,4E	32792	944007	1356.1	132416	32945	549388	
			BETHEL								
			RENOIST								
			AUX VASES								
1216 FRY OIL CO	RHODES-WATSON		CYPRESS	27,33,34-8N-3E	185*	6715*	6.1*	1105**	185*	4877*	
			BETHEL								
1206 GENERAL AMERICAN	DEVOKO CUOP		CYPRESS	1-7N-2E	152	2352	4.1	387	152	2231	
1254 TOM GRACE	BAIL-LONG		CYPRESS	15-7N-3E	25*	745*	1.3*	40**	25*	745*	
1205 L. B. HOSS TRUST	STEWART AND DIAL		CYPRESS	6-7N-3E	23*	1052*	1.1*	121*	23*	396*	
1225 L. B. HOSS TRUST	EMERSON		CYPRESS	31-8N-3E	10*	112*	0.3*	11*	10*	193*	
1235 L. B. HOSS TRUST	H. LOGUE		CYPRESS	18-7N-3E	35*	815*	1.5*	38*	35*	488*	
			BETHEL								
1241 L. B. HOSS TRUST	ARNOLD-409SN-SEALOCK		CYPRESS	19-7N-3E	540*	4719*	36.5*	714*	540*	4562*	
1242 L. B. HOSS TRUST	LAURA LOGUE		CYPRESS	18-7N-3E	28*	328*	1.1*	68*	28*	328*	
1248 L. B. HOSS TRUST	RHODES		CYPRESS	18-7N-3E	150*	1111*	5.8*	192*	150*	1197*	
*1249 L. B. HOSS TRUST	BUZZARD		CYPRESS	3-7N-3E				199		1450	
1210 R. L. HOSS	YOLTON		CYPRESS	12-7N-2E; 7-7N-3E	230*	4308*	10.0*	773*	230*	3331*	
			BETHEL								
1228 R. L. HOSS	SMITH		CYPRESS	13-7N-2E	15*	558*	1.4*	37*	15*	228*	
1232 HUGHES PROD.	HOPPER-TOWNSEND-MCLRY		CYPRESS	12-7N-2E	151	2947	2.5*	223*	55*	1641*	
*1223 HUMBLE O AND R	LOUDON DEVONIAN*		GENEVA	2,10,11,15,20,21,22, 27,28,29,32,33-8N-3E		207361		19241		184970	
				6-7N-3E							
*1208 JAKVIS BROS.	YAKY		CYPRESS			2832		286		1923	
			BETHEL								
*1234 KINGWOOD OIL CO.	WELKER		CYPRESS	13-7N-2E		115		2		23	
1214 MOONS & FRANK EXPL	HUMAN		CYPRESS	29-7N-3E	82*	4671*	4.2*	585*	82*	4822*	
1247 MOONS & FRANK EXPL	KIMMELL-GOOD		CYPRESS	19-7N-3E	248*	4464*	13.2*	592*	248*	4158*	
1236 M-S-C- CORP	O.L. BUNTSCI		CYPRESS	18-7N-3E	175*	2288*	9.7*	306*	175*	1932*	
			BETHEL								
1237 M-S-C- CORP	SEFTON		CYPRESS	1,12-7N-2E	126*	1354*	7.4*	290*	126*	1608*	
1224 MOBIL OIL CORP.	LOUDEN		CYPRESS	5-7N-3E, 32-8N-3E	1969	33623	55.6	5201*	2616	27340	
			BETHEL								
1227 MOBIL OIL CORP.	BUZZARD BROS.		CYPRESS	29-8N-3E	187	2485	4.2	241*	116	2131	
*1212 SHULMAN BROTHERS	LOUDEN EXTENSION		BETHEL								
			CYPRESS	34,35,36-8N-3E, 2,3-7N-3E		35840		3208*		23587	
1229 TEXACO, INC.	LOUDEN SOUTH UNIT		CYPRESS	6,7-6N-3E; 31-7N-3E	3458	28096	54.4	2225*	1924	27637	
1244 TEXACO, INC.	LILLY		CYPRESS	16-8N-3E	130*	3916*	20.2*	1079*	200*	3248*	
			BETHEL								
1108 T9I STAR PROD CO	LOUDEN EXTENSION		CYPRESS	19-8N-4E	60*	831*	2.2*	120*	60*	331*	
1200 TRI STAR PROD CO	RHODES, MCCLOY		CYPRESS	26,27,34-8N-3E	16*	1959*	0.8*	94*	16*	1683*	
			BETHEL								
1218 T9I STAR PROD CO	N. LOUDEN U		CYPRESS	20,21-7N-3E	200*	19118**	3.7*	1824*	200*	14321*	
1219 TRI STAR PROD CO	S. LOUDEN U		CYPRESS	21,28,29-7N-3E	250*	15985*	7.6*	2179*	250*	13023*	
1220 TRI STAR PROD CO	OUKIN, FORCE AREA		CYPRESS	24,26-8N-3E	20*	2297*	0.5*	330*	20*	1014*	
1221 TRI STAR PROD CO	HIATT		CYPRESS	29-7N-3E	40*	2978*	1.7*	489*	40*	2867*	
*1231 TROOP DRILLING	W A EAGLETON		CYPRESS	20-8N-3E		41		62		100*	
LOUISVILLE N, CLAY											
* 373 MCKINNEY, FUNDERR	WOLF-PD9TER		SPAR MTN	9,10-4N-6E		25		2		20	
MCKINLEY, WASHINGTON											
*4011 JET OIL CO.	FREIMAN-HUNLETH		RENOIST	29-3S-4W		151		1		152	



in Illinois, 1977-continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
LAWRENCE W., LAWRENCE													
*2250	2040	10.0	17.2	36	35.0	12-59	01-66	8	9	297	SH SD, PROD (R)		
2235	2050	18.0				1-75		4	10	150	PRODUCED (H)		*ESTIMATED
LEXINGTON, WABASH													
3658	2850	9.0	14.0	600	39.0	05-68		2	1	50	SH SD (F)		*ESTIMATED SINCE 1973
LILLYVILLE, CUMBERLAND, EFFINGHAM													
704	2450	8.0			35.0	05-57		3	6	160	PROD (B)		*ESTIMATED SINCE 1976
LIVINGSTON, MADISON													
*2500	520	15.0			33.5	07-54	12-57	2	5	80	HENDIST, A.V. SDS (R)		
*2501	525	22.0	16.0		36.0	05-52	12-70	10	10	80	SALEM, PROD (R)		
*2502	520	20.0			37.0	05-59	08-68	1	3	160	AUX VASES (R)		*NO DATA SINCE 1962
LIVINGSTON S., MADISON													
2508	2700	5.0	11.0			6-71		2	9	90	PRODUCED (R)		*ESTIMATED
2509	575	15.0				04-72		1	6	70	PRODUCED (B)		*ESTIMATED
2507	545	35.0	22.8	1421	35.0	10-63		5	7	150	SH SD (F)		*ESTIMATED
LOCUST GROVE, WAYNE													
*4085	3180	10.0			39.8	08-66	1-77	1	2	20	CYPRESS (R)		*ESTIMATED 1975-76
LOUDEN, EFFINGHAM, FAYETTE													
1252						02-72		*	*	*			*INCL WITH EXXON TOTALS+EST
								*	*	*			** PURCH FROM EXXON 2-72
1230	1446	25.0				08-60		4	4	80	PRODUCED (H)		
	1528	25.0						4	4	80			
1243	1530	40.0				11-56		2	4	80	TAR SPR, PROD (R)		
*1201	1584	20.0	17.4	126	34.0	09-56	01-63	1	1	20	PRODUCED (B)		*INCL PRIM PROD; +ESTIMATED
1202	1530	15.0			34.0	10-57		7	11	240	TAR SPR, PROD (R)		*EST. + INJ. SUSP. 1-1-69
1209	1450	27.0			38.0	09-54		1	3	40	TAR SPR, PROD (R)		*ESTIMATED
1213	1400	20.0	21.0	150	38.0	07-57		4	6	100	TAR SPR, PROD (R)		*ESTIMATED
1226	1480	30.0				09-68		2	9	140	TAR SPR, PROD (B)		*ESTIMATED
1203	1475	30.0				08-56		1	1	20	PURCHASED (R)		*ESTIMATED
1207	1562	37.0	18.0	200		03-54		2	3	320	PRODUCED (H)		*EST. SINCE 1971; +INJ. SUSP. 1971
1215	1590	30.0				05-57		4	5	80	TAR SPR, PROD (R)		*ESTIMATED
1217	1480	25.0	19.4	93		03-56		3	3	60	TAR SPR, PROD (R)		*EST. SINCE 1973; +INACTIVE 1977
1233	1400	30.0	19.0	95		11-62		4	2	40	TAR SPR, PROD (R)		*ESTIMATED SINCE 1973
1255	1490	25.0				01-66		1	6	80	PRODUCED (R)		*ESTIMATED; +INCL. PRIM. SINCE 66
1204	1500	18.5	19.5	102	38.0	10-50		650*	675*	14700*	TAR SPR, PROD (R)		*INCL 1252
	1580	11.6	18.3	85				360*	400*	7770*			
	1620	15.4	19.1	109				260	280	5890			
	1660	14.1						25	25	541			
1216	1500	17.0	18.6	91	37.5	06-57		12	5	120	TAR SPR, PROD (R)		*INCL PRIM PROD SINCE 6-57 +EST
	1560	11.0						2	4	60			
1206	1454	10.0	18.0	43	37.0	07-57		1	4	100	PRODUCED (R)		
1254	1560	7.0				8-75		1	3	70	PRODUCED (B)		*EST. + INCL PRIM PROD SINCE 1967
1205	1522	20.0	19.0	90	38.0	07-57		1	3	40	TAR SPR, PROD (R)		*ESTIMATED SINCE 1970
1225	1500	12.0	19.0		37.0	01-59		1	1	10	PRODUCED (H)		*ESTIMATE
1235	1475	26.0	19.0		37.0	11-61		1	1	20	PURCHASED (R)		*ESTIMATED
	1580	15.0	19.0					1	1	20			
1241	1490	68.0	20.0		38.0	11-58		1	9	140	PURCHASED (R)		*ESTIMATED
1242	1550	15.0			35.0	08-63		2	2	40	PRODUCED (B)		*ESTIMATED SINCE 1970
1248	1530	20.0	19.0		38.0	01-65		1	4	40	TAR SPR, PROD (R)		*ESTIMATED
*1249	1550	30.0	19.0	150	38.0	06-60	12-69	1	3	40	TAR SPR, PROD (R)		
1210	1504	30.0				08-57		4	4	40	TAR SPR, PROD (R)		*ESTIMATED SINCE 1971
	1540	29.0				07-57		2	2	40			
1228	1504	25.0				01-58		2	3	40	TAR SPR, PROD (R)		*ESTIMATED SINCE 1971
1232	1505	25.0			36.0	08-57		5	7	100	TAR SPR, PROD (R)		*ESTIMATED
*1223	3100	18.0	14.4	41	29.0	09-43	12-66*	7	42	2600	PRODUCED (R)		*CONVERTED TO GAS STORAGE RESERVOIR
*1208	1400	18.0				11-57	12-69	3	4	70	TAR SPR, PROD (R)		
	1540	27.0						2	5	70			
*1234	1558	11.0				05-62	12-69	1	1	10	TAR SPR, PROD (R)		
1214	1595	28.0			36.0	08-55		2	4	80	TAR SPR, PROD (R)		*ESTIMATED
1247	1534	22.0				01-59		2	5	40	TAR SPR, PROD (R)		*ESTIMATED
1236	1550	15.0			39.0	09-53		4	8	60	TAR SPR, PROD (R)		*ESTIMATED SINCE 1974
	1580	12.0						4	7	60			
1237	1560	20.0			39.0	08-57		2	3	50	TAR SPR, PROD (R)		*ESTIMATED SINCE 1974
1224	1450	18.0	18.4	101	37.0	01-58		24	12	240	TAR SPR, PROD (R)		*INCL PRIM PROD SINCE 1-58
	1525	20.0						12	12	240			
	1550	40.0						12	12	240			
1227	1400	20.0	18.4	102	38.3	10-58		2	2	40	TAR SPR, PROD (R)		*INCL PRIM PROD SINCE 10-58
	1420	20.0						2	2	40			
*1212	1530	30.0	20.0	200	38.0	12-55	12-68	46	48	416	TAR SPR, PROD (R)		*INCL PRIM PROD SINCE 12-55
1229	1600	25.0	18.5		37.0	05-60		19	18	632	PRODUCED (H)		*INCL PRIM SINCE 12-60
1244	1475	22.0			35.5	08-64		6	5	118	TAR SPRINGS (R)		*ESTIMATED 1977 DATA
	1555	22.5						6	5	118			
	1610	27.5						3	2	50			
1108	1550	8.0			36.7	01-63		4	6	200	TAR SPR, PROD (R)		*ESTIMATED SINCE 1975
1200	1515	12.0			37.5	01-54		8	1	120	PRODUCED (B)		*ESTIMATED SINCE 1975
	1570	12.0						4	4	80			
	1590	10.0						6	6	120			
1218	1550	21.0	21.0	180	37.5	11-56		5	5	250	TAR SPR, PROD (R)		*NO INJ A-72 TO 1-76; +EST 73-77
1219	1550	18.4	20.4	164	37.5	03-55		5	5	350	PRODUCED (H)		*ESTIMATED SINCE 1975
1220	1493	30.0			37.5	10-56		2	2	160	PRODUCED (R)		*INCL PRIM PROD SINCE 10-56 +EST
1221	1536	40.0	19.0	250	37.2	09-56		2	2	40	PRODUCED (H)		*ESTIMATED SINCE 1975
*1231	1520	6.0			39.4	04-61	04-71	1	2	40	TAR SPR, PROD (B)		*SINCE 1-65
LOUISVILLE N., CLAY													
*373	2800	10.0				11-70	05-72	1	2	30	CYPRESS (R)		
MCKINLEY, WASHINGTON													
*4011	1050	10.0				04-65	07-69	2	2	20	PRODUCED (B)		

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
MAIN C, CRAWFORD, LAWRENCE, JASPER											
* 667	H. J. ADAMS	H. J. ADAMS W F	ROBINSON	28-8N-12W			1058				
* 602	ASHLAND O AND R	BIRDS 1	ROBINSON	9, 10, 15, 16-5N-11W			19507		536		
* 603	ASHLAND O AND R	BIRDS 2	ROBINSON	20-5N-11W			2512		114		605
604	BELL BROTHERS	HARRICK	ROBINSON	15-7N-13W			1975*	1.5	147	112	1072
688	C E R PRODUCTION	ORLONG	ROBINSON	9-7N-13W		50*	1042*	2.2*	93*	50*	1052*
* 599	CALIENTE OIL CO	GEORGE L. WALTERS	ROBINSON	2-6N-13W			1632*		32*		720*
* 589	CLARENCE CATT	SPARKS WF NO. 1-M	BETHFL	13-6N-12W			258		11		119
598	CLARENCE CATT	HUDSON WF	BETHEL	6-5N-12W		10*	802*	0.6*	28*	10*	401*
* 616	CLARENCE CATT	MC CALL	ROBINSON	1-5N-13W			6		1		6
643	CLARENCE CATT	EAGLETON UNIT	SAMPLE	1-5N-13W		195*	1288*	9.1*	63*	195*	908
			BETHEL								
646	CITATION OIL CO	CONOVER	ROBINSON	19-7N-12W		100*	726*	6.6*	33*	100*	726*
* 695	JACK COLE	MULLINS	ROBINSON	9-5N-12W			15		8		11
* 609	E. CONSTANTIN	J. S. KIRK	ROBINSON	29, 30, 31, 32-7N-12W			977*		57*		
* 610	E. CONSTANTIN	SMITH	ROBINSON	7-7N-12W, 12-7N-13W			337		1		1
* 607	CREST ASSOCIATES	MITCHELL	ROBINSON	24, 25-7N-13W			935*		107*		125*
* 615	CREST ASSOCIATES	PORTERVILLE	ROBINSON	25, 36-8N-13W			1345		44		
* 619	ENERGY RESOURCES	ALEXANDER-REYNOLD*	ROBINSON	19, 20-7N-12W			8450*		602*		2095*
644	ENERGY RESOURCES	CRAWFORD CO. FLOOD	PENN	6, 7-5N-12W		62*	1207*	2.9*	49*	62*	1095*
			BETHEL								
* 612	O. W. FRANCHOT	BIRDS	ROBINSON	14, 15, 16, 21, 22-5N-11W			53049		1529		4250
617	R. M. FRY	WRIGHT FLOOD C	ROBINSON	23, 24-6N-13W			8335*		300*		5640*
693	R. M. FRY	SHILTS FLOOD C	ROBINSON	8-6N-13W		45*	3544*	1.9*	83*	45*	1942*
631	HAROLD FUNCANNON	BIRDS AREA	ROBINSON	16, 20, 21, 28, 29-5N-11W		916	33976*	18.7	1559*	201	20929*
* 614	GEN. OPERATIONS	LITTLEJOHN	ROBINSON	20-6N-12W			699		34		179
594	GETTY OIL CO	A. N. MANN	ROBINSON	5, 6-5N-12W, 32-6N-12W		549	10922	9.4	479	336	6748
			BETHEL								
596	GETTY OIL CO	STIFLE-MCKNIGHT	ROBINSON	7, 18-7N-13W		320	3447	10.2	232	273	2278
597	GETTY OIL CO	ALLFEN-AMES DEEP	BETHEL	29-7N-13W		588	4314	14.3	433	181	1383
			AUX VASES								
			MCCLOSKEY								
630	GETTY OIL CO	HIRCH 1	ROBINSON	14-6N-13W		249	7222	5.3	498	251	4698
632	GETTY OIL CO	HARRICK-WALTERS	ROBINSON	18, 19-7N-12W, 13, 24-7N-13W		1826	59810	38.0	1867	1565	21733
			ROBINSON								
633	GETTY OIL CO	GOOD-HAWS	ROBINSON	16, 17, 21, 22-6N-13W		173	9385	6.8	658	133	5946
* 634	GETTY OIL CO	HOWARD	ROBINSON	11-7N-13W			5713		461		5213
635	GETTY OIL CO	AMES	ROBINSON	29-7N-13W		152	3303	8.5	329	154	3115
636	GETTY OIL CO	DENNIS-HARDIN	ROBINSON	27, 34-6N-13W		425	13705	8.3	884	277	8880
637	GETTY OIL CO	THOMPSON	ROBINSON	26, 27-6N-13W		83	2787	3.2	273	70	2591
* 641	GETTY OIL CO	STIFLE-ORAKE	ROBINSON	9, 10, 16-7N-13W			8369		564		5788
645	GETTY OIL CO	M. ORAKE	BETHEL	17-7N-13W		146	1643	1.4	20	21	163
			AUX VASES								
648	GETTY OIL CO	E. M. STIFLE C	BETHEL	8-7N-13W		41	452	0.4	6	6	81
			AUX VASES								
649	GETTY OIL CO	J. G. MCKNIGHT C	BETHEL	18-7N-13W		3	233	1.0	12	16	100
			AUX VASES								
668	GETTY OIL CO	HIGHSMITH	ROBINSON	20, 21-6N-12W		412	7370	7.7	287	174	3755
* 696	GETTY OIL CO	WALTERS-STANTZ	ROBINSON	14, 15-7N-13W			938		58		597
* 621	ILL. LSE, OP.	SIEMH-NEWLIN-MOUSEH	ROBINSON	19-7N-13W			288*		28*		117*
* 618	G. JACKSON	STANFIELD	ROBINSON	17-8N-12W			47				5
613	KNOX & FRANK EXPL	CULVER WATERFLOOD	ROBINSON	5, 6, 7-7N-12W		*	4691*	*	184*		
590	PERKY LACEY	QUICK MRS HARTLE ROAD	ROBINSON	29-7N-12W			368*		50*		250*
591	O. R. LEAVELL	HIDLE	ROBINSON	25-8N-13W		94*	817*	4.5*	31*	94*	478*
606	O. R. LEAVELL	GROGAN (FLOOD 26)	ROBINSON	4, 9-7N-13W		10*	6100*	1.1*	438*		
611	O. R. LEAVELL	ORLONG (FLOOD 25)	ROBINSON	5, 8, 9-7N-13W		44*	9087*	2.0*	632*		
651	O. R. LEAVELL	SCHOTTLE-HIDLE	ROBINSON	32-8N-12W		50*	80*	9.9*	1*	50*	80*
669	O. R. LEAVELL	ORLONG (FLOOD 27)	ROBINSON	8-7N-13W		55*	1611*	2.0*	195*		
* 670	O. R. LEAVELL	STIFLE	ROBINSON	8-7N-13W			3010*		52*		
691	O. R. LEAVELL	ORLONG (FLOOD 29)	ROBINSON	17-7N-13W		*	190*	*	65*		
620	THE MACDONELL CO	CONDNEY AREA	ROBINSON	6, 7-7N-13W, 12-7N-14W		401	3649	10.3	271	405	3069*
671	THE MACDONELL CO	KIRTLAND U	ROBINSON	5-6N-13W		19*	6855	2.2	177	217	2924
672	THE MACDONELL CO	KIRTLAND-DEF	ROBINSON	5, 6-6N-13W		596	19571	22.6	932	596	12830
623	MARATHON OIL CO.	17 PROJECTS*	ROBINSON	16, 7, 8N-12W, 13, 14W		9480	459401	286.8	29852	9791	293396
650	MARATHON OIL CO.	FLOOD 99-X	ROBINSON	687N-113W		204	1803	16.7	84	394	1607
698	MARATHON OIL CO.	THORNTON WF 21-M	BETHEL	17, 18, 19, 20, 29-7N-13W		1812	26811	97.5	2976	1426	14512
			AUX VASES								
			MCCLOSKEY								
* 592	MT. CARMEL ORLG.	NEW HERMON WATERFLOOD	ROBINSON	22-6N-12W			1562		113		887
* 593	MT. CARMEL ORLG.	STEWART-INHODEN	BETHEL	36-6N-12W			133		5		32
* 624	PARTLOW, COCHNOR	RICH	ROBINSON	35, 36-6N-12W			2716		67		1134
* 662	PETROL. PROD. CO	WHOOLES	ROBINSON	29, 32-8N-12W			445				
608	PROUDENTIAL OIL	TOHILL-HUGHES	ROBINSON	27, 28-6N-13W		*	6035*	*	401*	*	4180*
* 625	RED HEAD OIL CO.	UIM	ROBINSON	25, 26-6N-13W			4220*		105*		1103*
* 663	RFE, INC.	MESERVE UNIT	ROBINSON	11-6N-13W			251		1		39
* 626	E. C. REEVES	RTLLINGSLEY COOP	ROBINSON	34, 35-7N-13W			2736*		89*		92*
* 605	M. F. ROBERTS	BISHOP C	ROBINSON	14, 20-8N-12W			2208		35		
622	CORTISS ROSS	OFFS-LEWIS-WALL-YOUNG	ROBINSON	4, 9-6N-13W		428	2828*	9.2	131*	419	2419*
647	ROYALCO, INC.	ORLONG HENNIST	BETHEL	19, 20, 29, 30-7N-13W		170*	882*	16.0*	377*	200*	1337*
* 680	ROYALCO, INC.	OAK RIDGE	BETHEL	17-5N-12W			537		*		*
* 681	ROYALCO, INC.	OAK RIDGE U	CYPRESS	17-5N-12W			3213		108*		893*
* 685	ROYALCO, INC.	DENNIS HEIRS U	ROBINSON	29, 30-7N-13W			22916		1032		8368
* 686	ROYALCO, INC.	C. J. REST	ROBINSON	20, 29-7N-13W			2366		109		874*
* 687	ROYALCO, INC.	STEWART HEIRS	ROBINSON	21-6N-13W			4090		289		2310
* 689	ROYALCO, INC.	MULSE-ALLEN	ROBINSON	12, 13-7N-14W			397		75		424*
* 697	ROYALCO, INC.	OFFS C	ROBINSON	28-6N-13W			1443		60		858
* 627	SHAKESPEARE OIL	MCINTOSH UNIT	ROBINSON	17, 18, 19, 20-6N-12W			396		18		241
* 628	SHAKESPEARE OIL	MONTGOMERY UNIT	ROBINSON	32, 33-6N-12W			516		18		177
				4-5N-12W							
* 661	SKILES OIL CORP.	CORWELL-GUKLEY COOP	ROBINSON	10-7N-12W			1214		30		227
* 664	SKILES OIL CORP.	WALTER COMM COOP	ROBINSON	1-6N-13W, 36-7N-13W			26				29
* 665	SKILES OIL CORP.	WEGFR COOP	ROBINSON	18, 19-5N-11W			770		8		109
				13, 24-5N-12W							
* 595	JAMES M. STONE	MC CANE	ROBINSON	28-7N-12W			55		1		12
* 629	JAMES M. STONE	CLARK-MULSE	ROBINSON	18-7N-13W			5726		303		3981

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
								Inj.	Prod.				
Project no.													
MAIN C. CRAWFORD, LAWRENCE, JASPER													
* 667	1000	27.0	18.5	98		01-58	12-58	5	4	80	LAKE, PRODUCED (M)		
* 602	950	30.0	21.0	136	31.0	05-54	01-64	67	53	530	PENN SAND (B)		
* 603	930	25.0	21.0	125	30.8	03-57	01-66	11	9	200	GRAV, PROD (M)		
604	960	56.0	19.2	126	34.9	10-54		4	2	40	PENN SD, PROD (B)	*1NJ CEASED 5-1-69	
688	980	20.0	40.0	75	36.0	07-52		5	12	200	PRODUCED (B)	*ESTIMATED	
* 599	930	20.0	18.1	141	32.7		12-75	5	7	70	PENN SD, PROD (B)	*ESTIMATED	
* 589	1350	7.0				02-64	01-70	1	1	20	PRODUCED (B)		
598	1370	10.0			35.0	04-64		2	1	20	SM SD (F)	*ESTIMATED SINCE 1973	
* 616	820	18.0			32.0	05-66	01-70	1	3	40	PRODUCED (M)		
643	1257	19.0	17.6		33.0	01-68		4	3	80	PRODUCED (B)	*ESTIMATED	
	1323	15.0	16.0					4	3	80			
646	930	22.0	19.0	95		06-70		5	6	40	PENN SD (B)	*ESTIMATED	
* 695	925	10.0	20.0	100	33.4	12-62	12-68	2	6	100	PENN SD (B)		
* 609	900	20.0	17.0	170	34.0	08-51	06-69	14	37	56	CITY WATER (F)	*NO DATA SINCE 1960	
* 610	900	25.0	18.0	70	34.0	03-54	01-70	6	5	50	SURFACE (F)		
* 607	890	10.5	21.1	99	33.5	06-53	01-65	13	19	78	PENN SD, PROD (B)	*NO DATA 1963-65	
* 615	890	20.0	17.0	47	32.6	04-54	01-70	5	19	50	LAKE (F)		
* 619	940	22.0	22.0	167	34.0	12-51		28	29	280	CYPRESS, PROD (B)	*NO DATA 1970-76	
644	1180	7.5	17.6	324	38.0	06-68		1	4	50	PENN SD (B)	*ESTIMATED SINCE 1972	
	1380	7.8	17.3	46	36.0			2	9	140			
* 612	950	20.0	18.9	162	31.7	06-51	11-71	95	104	1030	RIVER GRAV, PROD (M)		
617	900	15.0	20.0	245	34.0	01-53		9	16	18	PENN, PROD (B)	*EST 1970-73/1974 COMB WITH #650	
693	900	10.0	18.0	150	36.0	06-63		6	6	80	PENN, PROD (B)	*ESTIMATED SINCE 1970	
631	950	21.8	19.4	197	30.1	02-52		51	49	764	GRAV, PROD (M)	*ESTIMATED 1972-75	
* 614	850	24.0	20.0	50	37.5	10-52	12-58	4	9	60	PENN SD, PROD (B)		
594	950	20.1	20.0	150	33.0	01-64		18	19	140	BASAL PENN, PROD (B)		
	1320	9.0	16.0	40				9	6	80			
596	950	17.3	20.0	100	34.0	04-61		9	9	92	PENN SD, PROD (B)		
597	1332	10.0	14.2	30		01-70		9	5	170	PROD, FRESH (M)		
	1406	5.0	18.0	10				9	6	170			
	1434	4.0	19.6	10				9	5	170			
630	881	34.3	19.1	108	33.0	08-54		10	7	61	GRAV, PROD (M)		
632	950	30.9	20.0	152	35.0	03-54		28	36	407	PENN SD, PROD (B)		
633	930	24.3	21.0	378	35.0	09-57		4	5	174	PRODUCED (B)		
* 634	950	20.2	19.6	184	35.3	02-52	11-71	10	19	79	PRODUCED (B)		
635	980	25.3	20.0	150	35.0	10-56		7	8	153	SM SD, PROD (M)		
636	875	33.7	19.8	173	32.7	08-50		18	10	93	PURCHASED (B)		
637	860	32.9	19.8	108	33.0	09-52		8	3	40	PURCHASED (M)		
* 641	980	23.6	18.2	221	33.5	06-52	11-71	19	19	278	PENN SD, PROD (B)		
645	1364	8.0			36.8	10-71		6	2	80	SH SD, PROD (M)		
	1404	6.0						6	2	80			
648	1403	14.0	14.0	13	34.0	01-72		2	2	80	PURCHASED (B)		
	1438	12.0	11.0	2				2	2	80			
649	1412	3.0	11.5	19	34.0	09-72		1	1	20	PURCHASED (B)		
	1435	8.0	8.8	2				1	1	20			
668	920	21.2	20.0	80	35.0	04-59		11	6	140	PENN SD, PROD (B)		
* 696	950	17.1	19.0	200		06-63	11-71	4	10	67	PENN SD, PROD (B)		
* 621	896	36.0				07-63	01-73	2	5	180	PENN SD (B)	*NO DATA BEFORE 1967	
* 618	977	30.0	23.0	57	36.0	06-52	08-53	3	3	20	SH SD, PROD (M)		
613	950	17.0	19.5	108	36.8	02-61		13	20	126	POND, PROD (M)	*NO DATA SINCE 1971	
590	935	12.0	19.3	36	37.0	11-64		4	9	60	PRODUCED (B)	*1NJ SUSPENDED	
591	1000	10.0	15.0	85	34.0	07-61		3	6	80	PRODUCED (M)	*ESTIMATED	
606	950	20.4	18.9	71	37.0	10-53		12	22	151	GRAV, PROD (M)	*ESTIMATED SINCE 1969	
611	950	23.2	18.3	69	37.0	08-56		23	29	174	GRAV, PROD (M)	*ESTIMATED SINCE 1969	
651	995	18.0				04-76		5	12	120	PRODUCED (B)	*ESTIMATED	
669	950	15.3	17.8	33	37.0	01-58		8	8	27	GRAV, PROD (M)	*ESTIMATED SINCE 1969	
* 670	950	24.4	18.9	85	37.0	01-58	1-77	5	5	22	GRAV, PROD (M)	*EST,; *NO DATA SINCE 1973	
691	950	15.0	18.6	106	37.0	01-63		1	5	22	GRAV, PROD (M)	*NO DATA SINCE 1973	
620	910	21.0	20.8	165	34.4	11-66		5	29	310	PRODUCED (B)		
671	800	40.0	20.1	143	34.9	01-58		9	7	30	PENN SD, PROD (B)		
672	913	40.0	20.8	158	36.8	01-58		23	61	330	PENN SD, PROD (B)		
623	920	20.0	19.5	125	34.0	05-48		344	442	6176	GRAV, PROD (M)	*WILKIN, MUGHES, BRUBAKER, MARGIS, REED, FAWLEY, ARNOLD, PRICE, WOOD YORK, KIRTLAND, SMILTS, BONO HAMILTON, L-P, CARLTON	
													*NOW INCL IN OTHER WF PROJECTS
650	900	20.0	20.0	100		01-74		*	*	*	PRODUCED (B)		
698	1340	10.0	15.0	30	38.0	07-63		48	43	1410	GRAV, PROD (M)		
	1390	8.0						45	40	1410			
	1450	8.0						32	25	1050			
* 592	930	14.0	15.8	16	36.0	01-63	10-71	8	14	130	PENN SD (B)		
* 593	1310	10.0	16.0	45	34.0	03-64	07-66	2	2	50	PENN SD, PROD (B)		
* 624	1006	22.0	24.3	240	26.0	10-54	12-61	5	9	60	LAKE, PROD (M)		
* 662	1000	15.0	20.0	75	35.7	09-51	12-56	4	2	40	SM SD, PROD (M)		
608	900	20.0	20.0	100	32.0	06-51		6	9	130	SM SD, PROD (M)	*EST. 1951-73/COMB w/650 1974	
* 625	840	10.5	21.2	98		07-53	12-62	16	14	103	PENN SD, PROD (B)	*1960, 1961 ESTIMATED	
* 663	950	22.7	21.9	89		11-53	05-55	4	4	20	PENN SD (B)		
* 626	925	20.0	30.0	45		12-53	07-64	6	8	115	PENN SD (B)	*NO DATA FROM 1961 THRU 1964	
* 605	1000	22.4	22.1	156	35.7	11-53	02-60	26	7	70	SH FR, PROD (M)	*ESTIMATED	
622	875	15.0				01-68		14	16	100	SH SD, PRODUCED (M)	*ESTIMATED SINCE 1976	
647	1250	8.0	16.5	20	38.0	04-71		7	14	360	PRODUCED (B)	*INCL WITH 681	
* 680	1590	8.0	14.0	15	35.7	10-61	05-69	1	5	420	SH WELL, PROD (M)	*1INCL 680	
* 681	1470	15.0	18.5	57	35.9	10-61	05-69	5	6	420	SH WELL, PROD (M)		
* 685	950	20.0	19.0	120	37.2	12-59	05-69	71	84	380	SH WELL, PROD (M)		
* 686	950	20.0	15.0	12	37.2	11-61	05-69	7	11	80	SH WELL, PROD (M)	*ESTIMATED	
* 687	950	38.0	28.7	240	37.0	10-60	11-70	6	9	40	PRODUCED (B)		
* 689	936	50.0	18.5	74	36.8	12-61	03-69	3	5	180	PURCHASED (B)	*ESTIMATED	
* 697	930	12.0	17.0	64	37.2	09-61	05-69	7	9	160	SH WELL, PROD (M)		
* 627	925	12.0				07-54	01-59	4	8	39	PENN SD (B)		
* 628	975	25.8	22.6	150	28.3	05-54	05-58	6	6	52	PENN SAND (B)		
* 661	1035	20.0	22.2	100	33.0	07-51	09-55	18	17	180	PENN SD, PROD (B)		
* 664	985	12.5	20.1	93	36.0	12-51	01-53	5	6	40	PENN SD, PROD (B)		
* 665	900	20.0	17.0	37		11-52	07-56	9	11	90	CREEK, PROD (M)		
* 595	1128	30.0	19.0	200		03-65	06-66	1	4	5	PENN SD (B)		
* 629	910	25.4	19.9	278	34.0	01-52	01-70	13	4	80	SH SD, PROD (M)		



TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
MAIN C, CRAWFORD, LAWRENCE, JASPER CONTINUED											
	639	JAMES M. STONE	LEFEVER-MUSGRAVE	ROBINSON	13-7N-14W	55*	3754*	1.7*	427*	55*	2274*
	* 638	TIDEWATER OIL CO	HENRY-1KEMIRE	ROBINSON	10,15-7N-13W		4187		470		2401
	* 640	TIDEWATER OIL CO	MONTGOMERY-SEITZINGER	ROBINSON	15,16-5N-11W		1544		67		817
	* 642	TIDEWATER OIL CO	WALTER-STRAHL COOP	ROBINSON	13,14-7N-13W		991		111		712
	* 679	WAUSAO PET. CORP	HIGHSMITH COOP	ROBINSON	31-6N-12W		153*				37*
	659	E. L. WHITMER	SANDERS	ROBINSON	26,34,35,36-6N-13W, 1,2,3-5N-13W	118*	6744*	5.5*	127*	118*	2019*
	694	WICHITA INDUSTRIES	FLYNN	ROBINSON	26,35-6N-13W	300*	5501*	13.9*	553*	300*	3864*
	* 692	GEORGE WICKHAM	PRICE,KEITH,BARLOW	ROBINSON	8,17-7N-12W		1571		59		921
MAPLE GROVE C, EDWARDS, WAYNE											
	*1008	ASHLAND O AND W	RENNINGTON COOP	MCCLOSKEY	7-1N-10E		572		166*		
	4078	ENERGY RESOURCES	MT ERIE E	AUX VASES	22,23-1N-9E		108*		10*		18*
	4063	TRIPLE R OIL CO	MUDDLE	AUX VASES	13-1N-9E	75*	615*	2.3*	34*	75*	535*
	*1025	L. URBANSKI	MAPLE GROVE	MCCLOSKEY	9,10-1N-10E		1238*		188*		1238*
	*4127	WINMAR OIL CO.	W HENNINGTON	AUX VASES	13-1N-9E		171*		32**		213
MARINE, MADISON											
	2504	KARCHMER PIPE	MARINE PILOT U	SILURIAN	8,9,17-4N-6W	350*	2154*	5.9*	31*	350*	2086*
MARKHAM CITY, JEFFERSON											
	*2003	TIDEWATER OIL CO	NEWTON	STE GEN	1-3S-4E		*		1		7
MARKHAM CITY W, JEFFERSON											
	*2004	GULF OIL CO	W MARKHAM CITY U	AUX VASES	3,4,9,10-3S-4E		6404		429		4477
				MCCLOSKEY							
	*2020	M DOUBLE L	MARKHAM CITY WEST U	MCCLOSKEY	34,35-2S-4E, 2-3S-4E		300		1		300
MARTINSVILLE, CLARK											
	* 214	AMERICAN PUMP	FRUDERMAN AND CONNELLY	PENNSYLVANIA	13-9N-14W		3778*		121*		
	* 218	J. B. BUCHMAN	W MORGAN	CARPER	31-10N-13W		283				5
	* 219	MOHIL OIL CORP.	CARPER	CARPER	30-10N-13W		1111		10*		10
	* 220	MOHIL OIL CORP.	CASEY	CASEY	19-10N-13W		872		2		34
MASON N, EFFINGHAM											
	1104	MID-STATES OIL PROP	MASON N U	RENUST	9,10-6N-5E	40*	2357*	1.8*	171*	40*	2393*
				AUX VASES							
MATTOON, COLES											
	* 515	ASHLAND O AND W	DEGLER BROS COOP	CYPRESS	3-12N-7E		459		22		174
				SPARK MTN							
	500	N. A. HALORIDGE	MATTOON	CYPRESS	23,24,25,26,27,34,35,	400*	34274*	14.7*	2102*	400*	14967*
	507	N. A. HALORIDGE	JOELL	SPARK MTN	10-11N-7E	40*	621*	2.1*	27*	40*	621*
	512	N. A. HALORIDGE	SOUTH MATTOON UNIT	CYPRESS	34-12N-7E, 3-11N-7E	265*	11045*	10.9*	1227*	265*	6287*
				AUX VASES							
	520	N. A. HALORIDGE	MATTOON COOP	SPARK MTN	10,11-11N-7E	30*	671*	0.5*	75*	30*	281*
	* 504	DELL CARROLL	MATTOON	CYPRESS	23-12N-7E		189		20		88
	* 506	DELL CARROLL	MATTOON	SPARK MTN	23-12N-7E		346		84		173
	* 516	DELL CARROLL	CARLYLE 4-A	SPARK MTN	11-11N-7E		47		25		28
	523	COLLINS BROS.	LANDSHAW-HILL	CYPRESS	27-12N-7E	85*	860*	4.4*	91*	85*	860*
				SPARK MTN							
	503	WALTER DUNCAN	REDMAN-MACKE	CYPRESS	23-12N-7E	55*	658*	2.2*	76*	55*	704*
				SPARK MTN							
	511	WALTER DUNCAN	OHM	CYPRESS	2,3-11N-7E	200*	7235*	9.7*	438*	200*	1490*
				AUX VASES							
	514	WALTER DUNCAN	ANTHONY-OLIVER	SPARK MTN	2-12N-7E	60*	3285*	2.2*	249*	60*	1590*
	521	WALTER DUNCAN	COLEMAN UNIT	SPARK MTN	10-11N-7E	30*	914*	1.2*	180*	30*	797*
	* 525	WALTER DUNCAN	PAWNEE ROYALTY	SPARK MTN	23-12N-7E		700*		130**		600*
	* 524	GORDON OIL CO.	TIVNEN	CYPRESS	35-12N-7E		2000*		180*		1500*
	* 501	PHILLIPS PET. CO	TINSLEY	SPARK MTN	22-12N-7E		249		15		144
	* 509	SAFARI OIL CO	NORTH MATTOON UNIT	CYPRESS	10,11-12N-7E		1477		157*		457
	* 519	SCHAEFER OIL CO.	HERKIMER	SPARK MTN	11-12N-7E	100*	1124*	3.3*	58*	100*	534*
	517	STEVEN & FURSYTHE	G. BRINING	AUX VASES	3-11N-7E	45*	582*	2.4*	73*	45*	463*
				SPARK MTN							
MATTOON N, COLES											
	518	ELMER M NOVAK	N.W. MATTOON WF	SPARK MTN	22-13N-7E	40*	1610*	2.0*	162*	40*	1470*
MAUNIE N C, WHITE											
	*4453	COY OIL CO	HAMMING	TAR SPRINGS	24-5S-10E		220*		46**		220*
				OHAMA							
	*4307	DEVON CORP.	ACKERMAN-BOHLERER-JSN	AUX VASES	35-5S-10E		652*		65*		115*
	4328	DEVON CORP.	ACKERMAN	AUX VASES	23,24-5S-10E	52	1320	3.0	92	23	618
				SPARK MTN							
	4448	DEVON CORP.	ACKERMAN	RETHEL	25-5S-10E	25*	1100*	3.4*	139*	25*	1100*
				AUX VASES							
	4384	MID-STATES OIL PROP	MAUNIE WF U	MCCLOSKEY	24,25,26-5S-10E	90*	6497*	4.7*	1635*	90*	3838*
				PENNSYLVANIA							
				RETHEL							
				AUX VASES							
	4452	NAPCO	ACKERMAN E	MCCLOSKEY	25-5S-10E			3.4*	139*	30*	600*
				RETHEL							
	*4282	LOUIS PESSINA	RIEYRE ISLAND UNIT	AUX VASES	19,30-5S-14W		817		180		573
	4356	REBSTOCK OIL CO.	M H BOHLERER	WALTERSHURG							
				T&W SPRINGS							
				AUX VASES	26-5S-10E	10*	1078*	0.5*	146**	10*	1126**
				MCCLOSKEY			225				
	*4220	ROLEU OIL CORP.	MAUNIE N U	AUX VASES	18,19-5S-14W		2640*		33*		
	*4272	G. SCHUONAKER	MAUNIE W UNIT	AUX VASES	35-5S-10E, 2-6S-10E		2720*		184*		1737*
	*4405	WALKER DRUG CO.	GRAY	RETHEL	25-5S-10E		69		1		7
				AUX VASES							
MAONIE S C, WHITE											
	4213	ARSHER OIL CO	PALESTINE UNIT	BRIDGEPORT	13,24-6S-10E	500**	2920**	39.2**	229**	500**	1845**
				PALESTINE			13535		1721		12150



Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source:	Type:	
								Inj.	Prod.		SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	(F) = Fresh (B) = Brine (M) = Mixed	
Project no.													
MAIN C, CHAMFORD, LAWRENCE, JASPER													
CONTINUED													
* 639	910	24.4	20.0	250	34.0	02-54		14	14	119	SH SD, PROD (M)	*ESTIMATED	
* 638	935	14.6	21.0	175	35.0	07-48	12-63	24	44	104	PENN SD, PROD (B)		
* 640	979	21.0	19.0	144	32.0	05-54	12-65	6	3	64	SM SD, PROD (M)		
* 642	967	15.9	20.0	100	35.0	11-54	07-65	7	2	56	PENN SD, PROD (B)		
* 679	890	20.0	21.5	50	32.0	09-51	04-59	13	23	130	PENN SD (B)	*LAST DATA AS OF 12-31-52	
* 659	880	20.0	21.0	205	32.0	08-52		65	57	277	PENN SD, PROD (B)	*ESTIMATED; NO DATA 1958-1974	
* 694	980	12.0	18.6	200	37.4	11-63		14	18	210	LAKE, PROD (M)	*ESTIMATED SINCE 1973	
* 692	1050	10.0			30.0	05-62	09-66	2	3	30	PENN SD, PROD (B)		
MAPLE GROVE C, EDWARDS, WAYNE													
*1008	3100	5.0			38.0	09-52	06-61	4	11	300	PRODUCED (B)	*INCLUDES PRIMARY PROD	
4078	3170	15.0				11-68		1	1	30	PENN SD (B)	*ESTIMATED; NO DATA 1973-75	
4063	3150	12.0				09-71		2	8	110	PENN SAND,	*ESTIMATED	
*1025	3270	8.0			36.0	07-61	01-74	5	5	280	CYPRESS, PROD (B)	*ESTIMATED SINCE 1967	
*4127	3150	15.0	24.0	50	37.0	01-57	12-61	1	5	*	CYPRESS SD (B)	*ACCREAGE INCL. WITH 4063	
MARINE, MADISON													
2504	1725	99.0			34.0	12-70		3	7	240	PROD & SUPPLY (M)	*ESTIMATED SINCE 1974	
MARKHAM CITY, JEFFERSON													
*2003	3080	6.0				08-55	12-56	1	1	40	CYPRESS (B)	*DUMP FLOOD	
MARKHAM CITY #, JEFFERSON													
*2004	2900	11.8	22.1	269	38.0	04-54	12-63	12	9	230	CYPRESS, PROD (B)		
	3000	7.0	15.4	230				7	7	150			
*2020	3050	10.0			36.0	09-64	05-67	1	2	270	CYPRESS (B)		
MARTINSVILLE, CLARK													
* 214	530	25.0	24.0	43	32.0	01-56	03-75	50	42	240	LAKE (F)	*NO DATA 1959-69	
* 218	1346	40.0	16.0	11	30.0	10-52	12-53	2	6	40	SH SD (F)		
* 219	1334	27.0				01-51	02-55	4	1	10	SM GRAV (F)	*INCL PRIM PROD 1-51 TO 2-55	
* 220	464	25.0				08-50	12-54	8	3	23	SM GRAV, (F)		
MASON N, EEFINGHAM													
1104	2280	11.0	16.0	24	38.0	10-58		2	3	100	TAR SPR, PROD (B)	*ESTIMATED SINCE 1969	
	2344	17.0				08-65		1	1	30			
MATTOON, COLES													
* 515	1722	10.0			38.4	12-63	02-67	2	5	80	PURCHASED (B)		
	1920	10.0						2	5	80			
500	1750	13.0	16.0	84		05-52		20	25	850	PROD, SEWAGE EFF (M)	*ESTIMATED	
507	1980	19.0			35.0	04-66		2	2	50	PRODUCED (B)	*ESTIMATED	
512	1800	14.6	20.0	54	39.0	03-62		13	18	300	GRAVEL BED (E)	*ESTIMATED SINCE 1972	
	1910	10.0						6	4	100			
	1980	11.0	12.6	47				17	19	400			
520	1960	10.0	12.0			04-66		3	6	80	SM SD (F)	*ESTIMATED SINCE 1973	
* 504	1770	9.0				04-59	12-66	4	7	100	PURCH, PROD (B)		
* 506	1970	10.0			37.0	04-59	12-66	4	7	100	PURCH, PROD (B)		
* 516	1975	12.0			36.0	05-64	01-72	1	2	35	PURCHASED (B)		
523	1785	8.0				04-61		1	2	30	PRODUCED (B)	*ESTIMATED	
	2000	6.0						1	2	30			
503	1770	10.0				06-59		1	1	20	PRODUCED (B)	*ESTIMATED	
	1970	9.0						2	2	40			
511	1800	20.0				08-62		5	9	160	GRAVEL BED (F)	*ESTIMATED SINCE 1973	
	1920	12.0				09-68		1	3	40			
	1970	12.0				08-62		8	8	160			
514	1930	8.0				02-63		4	4	180	SH SD, PROD (M)	*ESTIMATED SINCE 1973	
521	1920	11.0				04-66		3	2	50	GRAV, PROD (M)	*ESTIMATED SINCE 1973	
* 525	1920	12.0				12-56	12-66	1	4	50	PURCHASED (F)	*EST., NO DATA + INCL. PRIM 56-66	
* 524	1830	15.0				6-54	12-60	4	4	80	SEWAGE EFFLUENT	*EST., NO DATA RECEIVED	
* 501	1950	10.0	15.0	990	37.0	11-50	12-54	2	5	70	PRODUCED (B)		
* 509	1800	10.0	18.0	40	39.0	02-61	01-72	8	15	360	PENN SD (B)	*INCL PRIM PROD SINCE 2-61	
* 519	1920	8.0			38.0	03-69	12-75	3	11	150	PENN SD (B)		
517	1920	10.0			37.0	11-64		1	3	40	PURCHASED (F)	*ESTIMATED	
	1970	15.0						1	1	40			
MATTOON N, COLES													
518	1900	6.0	14.7	167	38.9	03-64		5	8	160	SH SD, PROD (M)	*ESTIMATED SINCE 1970	
MAUNIE N C, WHITE													
*4453	2350	9.0				6-52	12-60	1	4	50	PRODUCED (B)	*EST. NO DATA RECEIVED + INCL PRIM	
	3000	6.0						1	3	40			
*4307	2955	14.0			35.8	04-67	1-77	2	2	40	RIVER GR (F)	*ESTIMATED SINCE 1973	
4328	2940	20.0			36.0	06-67		2	3	50	GRAV, PROD (M)		
	3035	4.0				08-61		1	2	40			
4448	2830	11.0				6-61		+	2	20	PRODUCED (B)	*EST. + ADJ. TO 4384	
	2950	17.0						+	2	20			
	3030	6.0						+	2	20			
4384	1350	10.0			34.0	08-64		1	4	40	RIVER GRAVEL (E)	*ESTIMATED SINCE 1972	
	2800	15.0						13	16	320			
	2950	15.0						5	8	140			
	3020	4.0						2	5	50			
4452	2825	7.0				8-64		+	2	20	PROD. & PUR.	*EST. + ADJ. TO PROJ 4384	
	2945	10.0						+	2	20			
*4282	2305	6.0	18.4	204	36.0	05-59	06-68	5	6	120	GRAV, PROD (M)		
	2345	10.0						3	2	50			
4356	2940	15.0			30	04-67		4	4	80	PRODUCED (B)	*INCL BOTH PAYS + EST	
	3050	8.0			37.0			3	3	80			
*4220	2900	12.0				10-57	05-69	9	8	170	RIVER GRAVEL (F)	*ESTIMATED	
*4272	2950	13.0	15.4	37	38.0	10-58	10-66	12	12	310	GRAVEL BED (F)	*ESTIMATED 1965-66	
*4405	2830	10.0				06-65	01-67	1	2	30	PENN SD (B)		
	2940	10.0						1	2	30			
MAUNIE S C, WHITE													
4213	1390	7.0				12-70		1	1	20	PRODUCED (B)	*ESTIMATED	
	2010	13.5				02-53	12-70	39	23	630		+ INCL B'PORT, TAR SPR, AUX VASES	

TABLE 11. Waterflood operations

Field, County	General information					Production and injection statistics (M bbl)					
	Project no. * = A8D. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
MAUNIE S C, WHITE CONTINUED											
	4213	ABSMER OIL CO			TAR SPRINGS AUX VASES TAR SPRINGS						
*4230	MOBIL OIL CORP.	TAR SPRINGS U			19-6S-11E 24,25-6S-10E	4748		792*		2049	
*4239	MOBIL OIL CORR.	MAUNIE COOP			TAR SPRINGS	180		11*		102	
*4268	MOBIL OIL CORP.	TAR SPRINGS U 2			TAR SPRINGS	639		60		209	
4273	BERNARD PODOLSKY	ARNOLD UNIT			CYPRESS	848*	3.1	260		3	135
*4265	REBSTOCK OIL CO.	SOUTH CLEAV POND			PALESTINE TAR SPRINGS	2097		141			428
MELROSE, CLARK											
* 227	SHAKESPEARE OIL	MELROSE U	ISABEL	13,24-9N-13W		192		4		2	
MILETUS, MARION											
2632	FEAR AND OUNGAN	JONES #1	RENOIST	16-4N-4E		23*	269*	1.4*	15*	23*	264*
MILL SHOALS, HAMILTON, WAYNE, WHITE											
4410	COY OIL CO	BROWN ET AL	AUX VASES	29,31,32-3S-RE	66*	1067*	2.1*	128*	66*	961*	
4059	CULLUM OIL CO.	FELIX	AUX VASES	12-3S-7E17-3S-RE	68*	500*	5.6*	41**	68*	500*	
*1571	RAUL GRAEHLING	FYIE	AUX VASES	25-3S-7E		*		37*			
*1505	BARRON KID	GARDNER	AUX VASES	24-3S-7E		*		28			
4352	POOL OIL CO.	MCINTOSH U	AUX VASES	31-3S-RE,6-4S-RE	88*	5875*	3.9*	460*	88*	3844*	
4384	POOL OIL CO.	MILL SHOALS U	AUX VASES	19,20-3S-RE	60*	3811*	2.1*	257*	60*	3016*	
4133	SHULMAN BROTHERS	POURMAN-FOX	AUX VASES	13-3S-7E11A,19-3S-RE	85*	1397*	7.3*	116*	85*	623*	
1569	TAMARACK PET.	DAIRY-NEWAY SW	AUX VASES	36-3S-7E	322	1739	8.0	189	323	1344	
4279	TAMARACK PET.	DAIRY-NEWAY NE U	AUX VASES	30,31-3S-RE	315	3749	3.4	202	258	1908	
*4411	TAMARACK PET.	E. MILL SHOALS	AUX VASES	20,29-3S-RE		1319		74		513	
4183	TEXACO, INC.	A.J.RODMAN "A" NCT-2	AUX VASES	19-3S-RE	82	3142	9.8	158	98	894	
4337	TEXACO, INC.	A.J.RODMAN "A" NCT 1	AUX VASES	31,32-3S-RE	109	2739	4.1	205	90	1243	
*1506	SAM TIPS	H.W. GRAY, TRUSTEE	AUX VASES	1-4S-7F		3211*		349		1444*	
*4442	SAM TIPS	MCINTOSH	AUX VASES	30-3S-RE		350*		70**		350*	
*4363	H. WEINERT EST.	MILL SHOALS UNIT	AUX VASES	30-3S-RE	6705			326		3089	
*4397	H. WEINERT EST.	WEST MILL SHOALS UNIT	AUX VASES	20,29,30-3S-RE	3230			189			
MOUE, SHELBY											
3802	CROSSROADS OIL	MOLF FIELD	RENOIST	15,16,21,22-10N-4E	15*	511*	0.8*	335**	15*	521*	
MONTROSE N, CUMBERLAND											
708	EGO OIL CO	MONTROSE WF	MCCLOSKEY	34-9N-7E	*	103*	*	11*	*	9*	
MT CARMEL, WAHASH											
3855	T. M. HANE ESTATE	MAHRIS	HIEHL	17-1S-12W	*	*	12.2*	127*			
			CYPRESS								
3864	FARMERS PETR COOR	SHAW	CYPRESS	7-1S-12W	55	712	1.6	108	10	226	
*3918	FARMERS PETR COOP	WAHASH UNIT	MCCLOSKEY	5-1S-12W		425		89		165	
*3941	FIRST NATL PET	SHAW-COUNTER	CYPRESS	7-1S-12W		259		28		9	
*3946	FIRST NATL PET	SHAW-COUNTER	RIFHL	7-1S-12W		364		69		148	
*3919	T. W. GEORGE EST.	NORTH MT CARMEL	CYPRESS	4,5-1S-12W		350		29			
*3958	T. W. GEORGE EST.	DUNKEL-JOHNSON	CYPRESS	32-1N-12W		400*		22			
*3884	H AND H OIL CO	C F CHAPMAN	TAR SPRINGS	7,18-1S-12W		169		10		83	
3854	HAYES-WOLFE BRUS	COTNER	CYPRESS	21-1S-12W	*	*	1.3*	81*			
3872	GILBERT A. HIGGINS	CROW-MILLER	CYPRESS	8-1S-12W	*	*	0.2*	98*	5*	130*	
3983	GILBERT A. HIGGINS	MT CARMEL N U	RIFHL	4,9-1S-12W	15*	4254*	0.8*	369*	15*	1415*	
			CYPRESS								
3849	ILL. MID-CONT.	ZIMMERMAN UNIT	CYPRESS	10-1S-12W	120*	540*	5.8*	28*	120*	540*	
*3887	JUNIPER RETROLEUM C	CLAY MOFLER	CYPRESS	5-1S-12W		256*		16		191	
3890	JUNIPER RETROLEUM C	PALMYRA U	RIFHL	5-1S-12W	107	3319	6.6	209	92	1389	
			TAR SPRINGS								
			CYPRESS								
3977	JUNIPER PETROLEUM C	W. MT CARMEL	CYPRESS	18,19-1S-12W	106	2059	3.5	163	59	861	
3923	LOER & MITCHELL	CHAPMAN-COURTESY U	CYPRESS	7,18-1S-12W	75*	2029*	2.6*	329*	75*	1428*	
3882	H AND H OIL CO.	CARMELL HEIRS	CYPRESS	7-1S-12W	15*	790*	0.9*	42*	15*	426*	
*3921	ELMER M NOVAK	MT CARMEL U	CYPRESS	17-1S-12W		1763		129			
*3862	WILLIAM PFEFFER	HAIRD-SCHULER	RIFHL	20-1S-12W		160*		12*		142*	
3922	SMELL OIL CO.	MT CARMEL U	RIFHL	17 : 2 1S-12W	69	14138	17.0	1802	221	11321	
			CYPRESS								
*3924	SKILES OIL CORR.	W MT CARMEL	TAR SPRINGS	18,19-1S-12W		895		138		513	
3863	WAYNE SMITH, OP.	MT CARMEL UNIT	RIFHL	21-1S-12W	297	3938	11.1	295	164	2592	
			CYPRESS								
3889	SO. TRIANGLE CO.	NORTHEAST MT CARMEL U	RIFHL	18,21-1S-12W	550*	4263*	33.1*	353*	550*	2395*	
			CYPRESS								
3975	SO. TRIANGLE CO.	HAUMGART-HART	RIFHL	1-1S-12W18-1S-12W	80*	617*	4.6*	95*	80*	497*	
3897	SUPERIOR OIL CO.	H.V.Z. UNIT	TAR SPRINGS	8,9-1S-12W	54	401	2.0*	369*	99*	788*	
			CYPRESS		165	1901					
*3917	TAMARACK PET.	K DUNKEL	RIFHL	5-1S-12W		252*		28		42*	
*3873	TEXACO, INC.	KIHN UNIT	BRIDGEPORT	10-1S-12W		301		50*		292*	
			CYPRESS			680					
*3875	TEXACO, INC.	STEIN UNIT	TAR SPRINGS	5-1S-12W		411		44*		178*	
			CYPRESS			449					
3876	TEXACO, INC.	GEIGER-STECKLER U	RIFHL	8,9,18-1S-12W	353	3539	38.5	442	378	1985	
			TAR SPRINGS								
			CYPRESS								
*3879	TEXACO, INC.	LOUCH-NOLLER	RIFHL	18-1S-12W		279		*		*	
*3880	TEXACO, INC.	CROUCH-NOLLER	CYPRESS	16-1S-12W		227		16*		79*	
*3925	TEXACO, INC.	STEIN LEASE	TAR SPRINGS	8-1S-12W		327		100		138	
			CYPRESS			263					
NEW HARMONY C, EDWARDS, WAHASH, WHITE											
4283	ABSMER OIL CO	CALVIN-MON UNIT	TAR SPRINGS	9-4S-14W	10*	4111*	0.7*	439*	10*	3085*	
			CYPRESS								
			RIFHL								
4313	ABSMER OIL CO	C. HUGHES	AUX VASES		84*	6768*	3.7*	521*	84*	4204*	
			CYPRESS	17-4S-14W							
			RIFHL								
			AUX VASES								
4335	ABSMER OIL CO	HRAHLETT	RIFHL	17-4S-14W	165*	999*	9.1*	115**	165*	1111**	
4398	ABSMER OIL CO	HRAHLETT	CYPRESS	17-4S-14W	90*	2217*	2.6*	329*	90*	1291*	

Illinois, 1977 CONTINUED													
Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks	
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SO = Sand GRAV = Gravel PROD = Produced SH = Shallow		Type: (F) = Fresh (B) = Brine (M) = Mixed
Project no.								Inj.	Prod.				
MAUNIE S C, WHITE													
CONTINUED													
4213	2240	4.0				09-71		1	1	20			
	2850	9.0				09-71		1	1	20			
*4230	2270	14.0	19.0	612	37.3	08-47	12-57	12	13	230	GRAV, PROD (M)		*INCL PRIM PROD, 8-47 TO 12-57
*4239	2275	14.0			38.0	11-55	01-58	2	5	70	GRAV, PROD (M)		*INCL PRIM PROD
*4268	2275	14.0	17.0	550	37.0	11-49	12-54	3	2	50	SH GRAVEL (F)		
4273	2590	4.7	15.5	44	36.2	02-64		2	6	194	PENN SO, PROD (R)		*INJECTION CURTAILED 1973
*4265	2000	8.0			35.0	06-57	12-67	2	4	60	PENN SO, PROD (R)		
	2200	10.0						6	8	150			
MELROSE, CLARK													
* 227	845	9.0	17.0	20	34.8	12-60	08-62	5	6	105	SH SAND (F)		
MILETUS, MARION													
2632	2150	8.0				10-66		1	1	20	PRODUCED (R)		*ESTIMATED
MILL SHOALS, HAMILTON, WAYNE, WHITE													
4410	3225	12.0	18.0	125	37.0	11-65		3	4	70	GRAVEL (F)		*ESTIMATED SINCE 1973
4059	3250	16.0				6-70		1	3	40	PRODUCED (R)		*EST. + INCL. PRIM. SINCE 70
*1571	3220	15.0				01-71	09-76	*	1	40			*ADJACENT TO ACTIVE WF +EST
*1505	3243	11.0				09-56	12-62	1	2	30	HARDINSBURG (R)		*MUMP FLOOD
4352	3220	21.0	20.0	195	39.0	06-62		10	13	373	GRAV, PROD (M)		*ESTIMATED SINCE 1976
4386	3220	18.5	18.5	75	39.0	08-64		3	6	188	CREEK, PROD (M)		*ESTIMATED SINCE 1976
4133	3235	25.0			37.0	07-67		3	5	140	SH SO, PROD (M)		*ESTIMATED SINCE 1975
1569	3200	15.0				04-71		2	6	80	SH GRAVEL (F)		
4279	3200	15.0			38.0	10-69		3	7	130	SHALLOW SN (F)		
*4411	3250	12.5	19.6	125	38.3	03-65	07-69	5	8	225	CREEK, PROD (M)		
4183	3212	16.0	22.0	130	37.0	08-64		2	3	60	GRAV, PROD (M)		
4337	3200	19.0	15.8	58	36.0	09-61		2	2	200	GRAV, PROD (M)		
*1506	3245	11.0	21.0		37.0	05-52	12-65	10	4	170	GRAVEL RED (F)		*ESTIMATED 1961-65
*4442	3210	18.0				6-58	12-77	*	5	60	PRODUCED (R)		*ESTIMATED; +ADJ. TO ACTIVE WF
*4363	3200	22.0	21.0		35.8	08-62	05-69	13	8	220	GRAVEL RED (F)		
*4397	3240	19.0				09-65	1-77	7	8	376	SH SO (F)		
MOORE, SHELBY													
3802	1770	10.0	15.0		34.0	12-61		3	5	330	PRODUCED (R)		*INCL PRIM PROD +EST
MONTROSE N, CUMBERLAND													
708	2488	10.0			36.0	02-71		1	1	40	CYP SAND (R)		*INJ. SUSPENDED 1-75
MT CARMEL, WABASH													
3855	1480	9.0				07-70		*	2	30			*ADJACENT TO ACTIVE WF +EST
	1980	6.0						*	1	30			
3864	2070	7.0				05-67		1	5	80	PENN SO (R)		
*3918	2307	8.0				10-57	12-74	3	6	75	PRODUCED (R)		
*3941	2050	12.0				04-53	12-57	1	4	50	SH SO (F)		
*3946	1375	16.0			40.2	02-50	12-59	1	2	30	PROD, FRESH (M)		
*3919	2000	14.0			35.4	08-55	12-61	3	4	70	PENN SO (R)		
*3958	2000	12.0				10-57	02-62	4	5	100	SH SO (F)		*ESTIMATED
*3884	1766	10.0			53.0	05-64	04-67	1	1	10	PRODUCED (R)		
3854	1980	7.0				07-70		*	2	30			*ADJ TO ACTIVE WF +EST
3872	2010	11.0				01-64		*	2	20			*ADJ. TO ACTIVE WF +EST
3983	1450	13.0	18.0	200	35.7	09-61		4	7	120	RIVER, PROD (M)		*ESTIMATED
	1950	7.2	16.0	34	37.4			7	7	243			*ADJ. TO ACTIVE WF +EST
3849	1890	12.0				09-73		1	5	70	PRODUCED (R)		*ESTIMATED
*3887	1995	15.0			35.0	11-63	01-74	1	1	20	SH SO, PROD (M)		*INJ SHUT DOWN 7-71
3890	1510	8.0			36.0	11-63		1	7	40	SH SO, PROD (M)		
	1670	10.0			37.4			1	4	50			
	2020	24.0			37.4			4	9	135			
3977	2046	10.0	17.0	83	35.0	09-61		3	4	80	SH SO (F)		*ESTIMATED
3923	2050	19.0	16.5	159	37.0	01-55		3	3	75	PRODUCED (R)		*ESTIMATED
3882	2030	11.5	17.2	32	36.0	07-64		2	3	60	SH SO, PROD (M)		
*3921	2140	13.0				07-54	12-61	6	15	234	SH SO, GRAV (F)		
*3862	1475	10.0				07-67	01-74	2	3	60	PRODUCED (R)		*ESTIMATED
3922	1500	16.0	19.0	182	39.2	07-54		15	14	140	WABASH RIVER (F)		
	2075	12.5						13	22	570			
*3924	1730	6.0				10-55	07-63	3	3	70	PRODUCED (R)		
3863	1450	16.0	17.0	100	39.0	12-67		10	10	200	GRAVEL RED (F)		
	2000	10.0	18.0	150				12	12	210			
3889	1475	7.0	18.0	165	32.4	07-70		9	12	220	RIVER GRAVEL (F)		*ESTIMATED
	1980	9.0	19.0	250	36.3			4	5	230			
3975	1460	14.0				11-69		1	4	50	PRODUCED (R)		*ESTIMATED SINCE 1973
3897	1704	11.0	18.9	221	34.8	06-71		1	1	20	RIVER GRAV (F)		*INCL BOTH PAYS
						06-63		4	5	100			
*3917	1500	6.7	15.3	310	36.6	06-52	01-58	2	3	70	SH SO, GRAV (F)		*DATA FOR 1954 EST
*3873	1350	10.0			35.0	07-64	10-68	2	1	30	GRAV, PROD (M)		*INCL BOTH PAYS
	1900	12.0						4	5	111			
*3875	1710	12.0			32.4	04-64	05-69	1	2	40	SH SO, PROD (M)		*INCL BOTH PAYS
	2010	11.0	17.0	29		04-64		2	1	73			
3876	1490	14.0			35.0	03-64		1	4	110	SH SO, PROD (M)		
	1690	8.5	18.9	79				1	1	30			
	2000	7.8	17.0	82				1	4	180			
*3879	1490	14.0			35.0	03-64	04-68	1	1	50	SH SO, PROD (M)		*INCL WITH 3880
*3880	1990	12.0			35.0	03-64	04-68	1	1	50	SH SO, PROD (M)		*INCL 3879
*3925	1710	12.0	18.9	221	32.4	03-64	08-67	3	1	116	SH SO, PROD (M)		
	2010	11.0	17.0	29	32.4			3	1	73			
NEW HARMONY C, EDWARDS, WABASH, WHITE													
4283	2350	9.0				01-59		1	2	30	GRAVEL RED (F)		*ESTIMATED
	2550	6.0						5	5	100			
	2800	6.0						3	5	80			
	2900	14.0						6	6	120			
4313	2560	17.0			37.0	11-60		4	2	80	GRAV, PROD (M)		*ESTIMATED
	2700	20.0						4	2	80			
	2820	18.0						4	3	80			
4335	2670	25.0			38.3	11-61		1	2	80	SH SO, PROD (M)		*INCL 4333, 4334 +EST
4398	2552	20.0			37.0	12-63		2	2	40	SH SO, PROD (M)		*ESTIMATED

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABO. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
NEW HARMONY C, EDWARDS, WARASH, WHITE											
CONTINUED											
4398	ABSHER OIL CO			RETHEL							
*3926	ASHLAND O AND R	N MAUD(WALLACE A,B)		RETHEL	5,4,7,A-2S-13W		715		165		156
*3927	ASHLAND O AND R	RAVENSTEIN		RETHEL	32-1S-13W		99		59		8
3857	JOHN L. AULVIN	SEILER		WALTERSHURG	26,27-1S-13W	82*	900*	3,8*	61*	82*	887*
				HARDINSBURG							
				RETHEL							
388A	N. A. BALDRIDGE	STERL U		RETHEL	16,17-1S-13W	37*	616*	1,7*	46*	37*	427*
4293	BARGER ENG	FORD 'B'		CYPRESS	21-4S-14W	38	2324	7,7	298	38	1854
				RETHEL							
				AUX VASES							
3851	FRANCIS BEARD	SMITH,SLS,SHEARER,HAW		TAR SPRINGS	32,33-1N-13W	440*	4360*	22,3*	350**	440*	4360*
4274	FRANCIS BEARD	J.J. HOND		CYPRESS	A-4S-14W	50*	5531*	2,1*	515*	50*	2728*
				RETHEL							
				AUX VASES							
4316	BELL BROTHERS	SKILES		CYPRESS	1A-4S-14W	6*	2161	3,8	272	30	946
				RETHEL							
				AUX VASES							
3845	ALENE BLADES	W. RABER		RETHEL	1A-2S-13W	30*	100*	5,7*	16*	30*	100*
4426	C. E. BREHM	JOHNSN-STALLINGS-FURD		CYPRESS	5-5S-14W	17	350	6,1	116	17*	350*
3987	W. E. BRIURECK	ERLER		CYPRESS	5,6-3S-13W	20*	500*	5,5*	55*	15*	258*
				RETHEL							
				AUX VASES							
				SPAR MTN							
*4219	CALSTAR PET.	FORD 'H'		RETHEL	21-4S-14W		1113		104		
3891	R. G. CANTRELL	SCHRODT STATION S U		CYPRESS	3-2S-13W	10**	1075*	1,1*	72*	10*	285*
*3980	OELL CARROLL	FRIENDSVILLE FIFLO		CYPRESS	11-1S-13W		345		80		134
*3982	CENTRAL EXPLR CO	FRIENDSVILLE II		CYPRESS	2,11-1S-13W		215A*		32A*		7A3*
4303	CONYERS OIL WELL	ALLEN GRAY 'H' C		AUX VASES	20-4S-14W	30**	224**	1,9*	92*		
4312	CONYERS OIL WELL	FITTON 'A' UNIT		AUX VASES	29-4S-14W	54*	1127*	2,6*	134*	54*	575*
3963	COY OIL CO	KERWIN U		RIEHL	14,15,22-3S-14W	100**	823A**	5,6*	1299**	92*	2847**
				RETHEL							
				AUX VASES			90				
*433A	COY OIL CO	GRAY		AUX VASES	20-4S-14W		814		105*		454*
*4339	COY OIL CO	GRAY		RETHEL	20-4S-14W		150		*		*
*436A	COY OIL CO	H. R. GRAY		CYPRESS	17-4S-14W		195A		2A*		898
				RETHEL							
				AUX VASES							
*4286	ALVA C. DAVIS	CALVIN GRIFFITH C		RETHEL	A-4S-14W		285		31		216
				AUX VASES			452		108		476
3949	J. D. DERITY	WAHER U		RIEHL	19-2S-13W; 24-2S-14W	*	1300**	1,1*	86*	*	900**
*3994	B. R. DUNCAN	DUNKEL		CYPRESS	11-1S-13W		115		12		36
4227	FARRAR OIL CO.	HOWMAN'S RENO UNIT		TAR SPRINGS	1A,21-5S-14W	77*	10339*	3,5*	24A1*	77*	6735*
4280	FEAR AND DUNCAN	FORD UNIT		DEGONIA	7,8-5S-14W	140*	1983*	11,7**	867**	167**	2008**
				WALTERSHURG	8-5S-14W	25*	416*				
				RETHEL	7,8-5S-14W		27				
				AUX VASES	7,8-5S-14W		2619				
*3929	G R COMRANY	SHULTZ		CYPRESS	7-3S-13W		2693*		175**		19A2**
*3930	G W COMRANY	SHULTZ		CYPRESS	7-3S-13W		816*		+		+
3878	V. R. GALLAGHER	DIINN		CYPRESS	11-3S-14W	65*	113*	8,4*	24*	65*	83*
*4330	V. R. GALLAGHER	GREATHOUSE-WAIT, UNIT		WALTERSHURG	32-4S-14W		102		122*		40
*3907	T. W. GEORGE EST.	EAST MAUD		RETHEL	32,33-1S-13W		98		55*		
*3947	T. W. GEORGE EST.	EAST MAUD		CYPRESS	32,33-1S-13W		31		55		
*3976	T. W. GEORGE EST.	E MAUD		WALTERSHURG	22,27-1S-13W	5	693	0,6	184	5	194
				RETHEL			352		16		32
3874	GETTY OIL CO	KEENSBURG U		RIEHL	16,17,20-2S-13W	2109	21629	55,4	1663	1101	10274
				CLORF							
				CYPRESS							
				RETHEL							
4433	GETTY OIL CO	E.S.DENNIS"AA"		MCLOSKEY	33-4S-14W	340	1790	10,9	54	115	365
				ST LOUIS							
4290	LYLE GILLIATT	M E BLAZE COUR		TAR SPRINGS	8,17-4S-14W	*	443*	2,5**	637**	45**	2771**
				CYPRESS		*	366*				
				RETHEL		*	2352*				
				AUX VASES		*	1207*				
3844	H AND H OIL CO	GRAY-SCHRODT		RIEHL	20,29-2S-13W	25*	300*	5,1*	34*	25*	300*
4242	H AND H OIL CO	O. R. EVANS		RIEHL	4,5-4S-14W	115*	9449*	6,8*	759*	115*	4116*
				CYPRESS							
				RETHEL							
				AUX VASES							
4354	H AND H OIL CO	WARASH RIVERBED U		MCLOSKEY	33-3S-14W	110**	3043**	6,0**	220**	110**	1981**
				RIEHL							
				CYPRESS							
				AUX VASES							
1022	HUMMON OIL CO.	HROSTER		RETHEL	34-2S-14W	75*	1800**	5,5*	250**	75*	1800**
*3955	INO. FARM BUR.	LANDIS-GOINS		CYPRESS	3-2S-13W		62		11		108
385A	JAM OIL CO	SCHAUF		CYPRESS	30-2S-13W	*	*	10,1*	102*	70*	600*
*384P	F. JAMES	WADDLE		CYPRESS	32-1S-13W		+		19**		+
				RETHEL							
3933	JUNIPER PETROLEUM C E MAUD			CYPRESS	32,33-1S-13W;	191	7469	8,3	782	113	3763
				RETHEL	4,5-2S-13W						
*3934	JUNIPER PETROLEUM C W MAUD			RETHEL	32-1S-13W; 5,7-2S-13W		2240*		497		393
*395A	JUNIPER PETROLEUM C	COWLING-RAHER		RETHEL	17-2S-13W		109		19		26
*3841	DAVIS LAMBERT	CLELLA EWALD		RETHEL	32-1S-13W		+		34**		+
3886	HERMAN LOEB	N MAUD U		CYPRESS	13,24-1S-14W	208*	2401*	10,7*	299*	208*	2184*
				MAWA							
3961	HERMAN LOEB	A E SCHULTZ 'A'		CYPRESS	8,17-2S-13W	10*	2087*	0,8**	463**	20**	2032**
				RETHEL		10*	2522*				
421A	HERMAN LOEB	FORD		AUX VASES	20,21,22-4S-14W	*	239*	*	465*		
4294	HERMAN LOEB	GRAY 'C', 'H'		TAR SPRINGS	17,20,21-4S-14W	10*	6605*	0,2*	879**	10*	4413*
				CYPRESS							
				RETHEL							
				AUX VASES							
3988	LOEB & MITCHELL	WALTERS		TAR SPR	23-1S-13W	205*	1550*	9,2*	136*	205*	1505*
3965	LUHOIL COMPANY	HELM C		RIEHL	22,23,27-3S-14W		646**	29,2*	4545*	219*	22808*
				WALTERSHURG			2306**				



Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
Project no.								Inj.	Prod.				
NEW HARMONY C, EDWARDS, WABASH, WHITE													
CONTINUED													
4398	2662	20.0						2	2	40			
*3926	2650	6.5	16.0	60	37.5	04-56	11-71	4	4	130	GRAV, PROD (M)		
*3927	2650	7.0	7.0	16	38.4	05-57	12-66	1	2	20	GRAV, PROD (M)		
3857	1900	10.0				06-66		1	2	40	PRODUCED (H)		*ESTIMATED
	2100	22.0						2	2	40			
	2400	16.0						1	1	20			
3888	2570	12.0	18.9	87	39.0	12-69		3	7	100	WATER WELL (F)		*ESTIMATED
4293	2600	9.0			36.0	03-53		1	4	50	PRODUCED (H)		
	2700	9.0	13.0			03-53		1	2	20			
	2885	10.0	13.0	30		03-53		1	1	30			
3851	2000	20.0				12-60		3	13	130	PRODUCED (H)		*ESTIMATED; +INCL PRIM, PROD.
4274	2585	13.0	18.2	46	34.3	08-58		4	4	80	SH SD, PROD (B)		*ESTIMATED
	2705	17.0	16.0	20	36.1			5	6	110			
	2820	15.0	17.0	31	36.2			6	6	110			
4316	2550	15.0	17.5		38.9	08-61		2	2	40	SH SD (F)		
	2700	12.0	16.8					1	2	30			
	2850	18.0	19.0					4	4	80			
3845	2570	10.0				6-72		1*	2	30	PRODUCED (H)		*ESTIMATED
4426	2608	22.0			36.0	03-66		1	7	80	PRODUCED WATER (H)		*ESTIMATED
3987	2470	10.0				09-70		1	2	40	SH, SAND (F)		*ESTIMATED
	2635	11.0						1	2	40			
	2742	9.0						1	3	50			
	2858	4.0						1	2	40			
*4219	2695	12.0			37.5	03-53	04-60	1	3	40	GRAVEL BED (F)		
3891	2320	12.0			34.4	10-63		1	4	160	SH SD, PROD (M)		*ESTIMATED; +SND ONLY
*3980	2290	10.0			36.0	02-61	10-66	6	6	120	RIVER GRAV, PROD (M)		
*3982	2300	13.0	16.1	90	36.8	02-61	01-72	9	8	170	SH SD (F)		*NO INJ 12/67-6/69; 1971 NO DATA
4303	2844	7.0				04-60		1	1	30	GRAVEL BED (F)		*ESTIMATED SINCE 1968; +SND ONLY
4312	2888	4.0	16.2	25	36.4	03-60		1	1	140	GRAVEL BED (F)		*ESTIMATED SINCE 1965
3963	1800	12.0	21.0	200	33.0	10-59		6	4	130	GRAV, PROD (M)		*ESTIMATED; +INCL ALL PAYS
	2700	13.0	16.2	40				12	12	310			*INCL BETHFL
	2800	8.0				10-59	12-64						
*4338	2850	20.0	17.0	50		03-60	12-63	4	5	120	SH SD, GRAV (E)		*INCL 4339
*4339	2720	5.0	15.0			03-60	12-63	2	2	50	SH SD, GRAV (F)		*INCL WITH 4338
*4368	2575	10.0	16.2	118	39.0	01-63	08-68	4	4	80	GRAV, PROD (M)		
	2790	9.0	14.3	50				2	2	40			
	2900	16.0	18.0	125				4	4	80			
*4286	2680	10.0			33.0	04-59	09-70	2	1	40	GRAV, PROD (M)		*INJ TEMP DISC 12-64
	2855	20.0			36.0	06-60	08-70	1	1	35			
3949	1740	15.0	20.6	39	37.0	10-56		1	4	50	SH SD (F)		*NO DATA SINCE 1958 +EST
*3994	2100	15.0			36.4	11-62	12-65	1	1	20	SH SD, PROD (M)		
4227	2260	19.5	17.9	120	37.5	12-53		4	6	200	GRAV, PROD (M)		*ESTIMATED SINCE 1970
4280	1930	6.0	16.0	50	36.0	11-65		5	9	100	GRAV, PROD (M)		*INCL ALL PAYS; +EST
	2244	8.0	18.0	47	36.0	08-66		2	3	40			
	2746	5.0	15.0	32	36.0	11-65		1	1	20			
	2872	12.7	18.1	43	37.8	02-59		4	6	120			
*3929	2600	20.0	18.0	50	38.0	07-51	12-62	2	5	70	GRAV, PROD (M)		*NO DATA AFTER 1959 +INCL 3930
*3930	2500	10.0	17.0	100	38.0	05-52	12-62	1	2	30	SH SD, PROD (M)		*NO DATA AFTER 1959 +WITH 3929
3878	2490	25.0				02-75		1	4	70	RIVER GRAV (F)		*ESTIMATED
*4330	2215	12.0	19.0	140		01-55	09-63	1	1	50	SH SD, PROD (M)		*INCL PRIM PROD 1-55 TO 9-63
*3907	2500	15.0	17.0	57	36.1	07-52	12-56	2	7	90	SURFACE (F)		*INCL PRIM PROD 7-52 TO 12-56
*3947	2400	12.0				01-55	12-57	1	3	40	SURFACE (F)		
*3976	1950	5.0	17.8		37.0	12-64	12-77	1	6	90	RIVER GRAV, PROD (M)		
	2410	10.0	17.0		39.0		08-68	3	7	120			
3874	1700	11.0	12.0	82	35.0	01-68		8	12	210	SH GRAV, PROD (M)		
	1775	8.0	12.0	54				11	11	230			
	2420	26.0	15.0	72				16	34	680			
	2550	10.0	12.0	15				28	20	500			
4433	2910	12.0	12.0			05-74		1	2	80	PENN SD, PROD (H)		
	3080	26.0	18.0					1	2	80			
4290	2215	9.0			36.4	12-59	01-68	3	3	60	SH SD, PROD (M)		*NO INJ SINCE 72; +INCL ALL PAYS
	2570	11.0					01-68	6	6	120			*ESTIMATED SINCE 1970
	2670	25.0						8	9	170			
	2825	12.0						8	9	170			
3844	1720	7.0				6-75		3	4	60	PRODUCED (H)		*ESTIMATED
4242	1500	17.7	14.7	26		10-57		10	4	110	GRAV, PROD (M)		*ESTIMATED SINCE 1976
	1800	21.0				12-61		5	6	120			
	2660	23.0				12-61		6	5	120			
	2300	19.4				10-49		8	5	170			
	2400	21.2				10-49		4	2	120			
4354	1825	28.0	12.5	20		09-60		8	2	47	SH SD, PROD (M)		*ALL VALUES ARE 21 PER CENT OF
	2530	35.0	19.0	100				1	2	47			TOTAL, REMAINING IN POSFY CO
	2780	29.0	19.2	50				1	2	47			INDIAN; +EST SINCE 1976
1022	2740	12.0				6-64		2	9*	110	PRODUCED (H)		*EST, +INCL PRIM SINCE 1953
													*ADJ. TO PROJ. 1016 SINCE 53
*3955	2340	7.0			36.0	03-57	01-60	1	2	20	PRODUCED (H)		
3856	2450	20.0				01-70		*	3	30			*ADJ TO EXISTING WF +EST
*3842	2450	10.0				6-54	12-61	+	2+	30			*EST, +ADJ TO 3933 1954-61
	2570	11.0						+	2+	30			
3933	2400	8.0	18.5	75	37.0	04-52		3	8	80	GRAV, PROD (M)		
	2520	8.5	17.0	57				5	11	170			
*3934	2620	12.0	17.2	57	36.0	10-50	01-74	20	26	510	GRAV, PROD (M)		
*3956	2549	15.0			37.0	05-57	12-75	1	1	20	GRAV, PROD (M)		
*3841	2573	12.0				6-54	12-60	+	3	30			*EST, +ADJ. TO ACTIVE PROJ 54-60
3886	2500	11.0	16.5	115	37.0	06-64		2	6	100	PRODUCED (H)		*ESTIMATED
	2850	9.0						1	4	80			
3961	2424	12.0	19.3	268	38.0	03-59		6	8	100	SH SD, PROD (M)		*EST SINCE 1972; +INCL BOTH PAYS
	2540	20.0						5	7	100			
4218	2840	18.3	15.0	20	33.1	01-56		1	2	200	SH SD (F)		*EST; NO DATA SINCE 1968
4294	2220	10.0				05-60		3	2	50	GRAVEL BED (F)		*ESTIMATED + OPERATOR
	2580	11.0						7	5	120			REPORTS LITTLE OIL FROM CYPRESS
	2700	9.0						4	3	70			AND BETHFL
	2840	18.0						9	9	180			
3988	1945	12.0				08-68		1	5	60	PRODUCED (H)		*ESTIMATED
3965	1800	15.0				06-59		2	1	40	GRAVEL BED (E)		*EST, 1976 DATA; +INCL ALL PAYS
	2115	25.0	20.1	171		12-50	09-64	5	3	80			*CUM. THROUGH 1976

TABLE 11. Waterflood operations

Field, County		General information				Production and injection statistics (M bbl)					
Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production		
					Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	
NEW HARMONY C, EDWARDS, WABASH, WHITE CONTINUED 3965 LUHOIL COMPANY											
			TAR SPRINGS				1188**				
			CYPRESS				5138**				
			HETHEL			219	22808				
			AUX VASES				7088**				
3839	M AND M OIL CO.	MARK	TAR SPRINGS	33-1N-13W	10	510	0.1	95	10	510	
3866	M AND M OIL CO.	COWLING U	RIEHL	19,20,29,30-2S-13W	49*	17889*	4.1*	2276*	49*	10147*	
			CYPRESS								
3959	M AND M OIL CO.	KEENSBURG U	CYPRESS	9-2S-13W	209	10251*	4.8	853*	209	6107*	
4305	M AND M OIL CO.	FORD 'A'	WALTERSBURG	16,21-4S-14W	60*	5961*	2.3*	438*	60*	347*	
			TAR SPRINGS								
			CYPRESS								
			HETHEL								
4329	M AND M OIL CO.	M.S. DONALD	AUX VASES								
			HETHEL	21-4S-14W	30*	1207*	2.5*	311*	30*	457*	
			AUX VASES		5*	1541*					
4416	W. C. MCRRIDE	INDIANA STATE-EVANS	CYPRESS	4-4S-14W	11	215	3.6	59	11	414	
*3843	E. H. MORRIS EST	CFNEY	CYPRESS	32-1S-13W		+		62*		+	
			HETHEL								
*3838	MURVIN OIL CO.	KURTZ-JOACHIM	CYPRESS	8,17-2S-13W		800*		160**		800*	
			HETHEL								
4226	ELMER M NOVAK	CALVIN	CYPRESS	5,8-4S-14W	65*	2599*	8.3**	2943**	160**	5229**	
			HETHEL		30*	3012*					
			AUX VASES		65*	11641*					
3861	O M AND F OIL CO	KEENSBURG U	RIEHL	19-2S-13W	80*	640*	4.8*	164**	80*	640*	
3837	OLDS OIL & CHEM.	COILINS UNIT	RIEHL	20-2S-13W	43*	57*	1.6*	2**	10*	17*	
			CYPRESS								
4276	PAM-ARK	O. SMITH 1,4,11	CYPRESS	4-4S-14W	70*	1212*	3.2*	114*	70*	622*	
			HETHEL								
*4275	POOL OIL CO.	CALVIN CONSLO	AUX VASES								
			TAP SPRINGS	9,16-4S-14W		10796		1720		7283	
			CYPRESS								
			HETHEL								
3974	PRUDENTIAL OIL	ERIENDS GROVE U	AUX VASES								
			RIEHL	3-1S-13W,134-1N-13W	45*	2971*	1.6*	214*	45*	1933*	
			JORDAN								
			CYPRESS								
3985	PRUDENTIAL OIL	FOST-LEY UNIT	RIEHL	3-1S-13W	20*	2175*	0.8*	221*	20*	1074*	
			CYPRESS			473*		131*		233*	
*3967	RK PFT. CORP.	COWLING U	CYPRESS	23,25,26,35,36-2S-14W		2867		467		605	
4317	REHSTOCK OIL CO.	CROSSVILLE LEASE	CYPRESS	20-4S-14W	18*	2774*	1.0*	58*	18*	1275*	
			HETHEL								
4393	REHSTOCK OIL CO.	DALY 'A'	AUX VASES								
			CYPRESS	17-4S-14W	280*	2280*	13.2*	183*	250*	1763*	
			HETHEL								
4401	REHSTOCK OIL CO.	NATIONAL BANK WF U	AUX VASES								
4440	REHSTOCK OIL CO.	LUMAS	TAR SPRINGS	20,29-4S-14W	6*	668*	0.3*	179*	6*	301*	
			WALTERSBURG	14-4S-14W	+	+	10.8*	99*	+	+	
4455	REHSTOCK OIL CO.	DALY H	TAR SPRINGS	20-4S-14W		+	0.2	56*		+	
			AUX VASES								
3870	HUBERT ROSE	MAUD NW UNIT	WALTERSBURG	27,34-1S-13W	151	2068*	0.5	209*	151	1100*	
3893	HUBERT ROSE	MAUD U	WALTERSBURG	34,35-1S-13W	115	1734*	1.0	382*	115	1090*	
			CYPRESS								
*3995	HUBERT ROSE	J.W. PFISINGER	CYPRESS	4-2S-13W		281*		107*		281*	
3962	RUSSI OIL CO.	4 W	CYPRESS	26-1S-13W	5*	1023	5.6	236	58	1023	
*3892	ROYALCO, INC.	SCHPOOT STATION MID U	CYPRESS	34,35-1S-13W		560		123		214*	
*4300	ROYALCO, INC.	REEVES UNIT C	CYPRESS	28-3S-14W		2656		161		976	
			AUX VASES								
4392	ROYALCO, INC.	CALVIN WATERFLOOD C	MCCLOSKY								
*3895	J. W. PUDY DPLG.	LEPLER FLOOD	AUX VASES	22-4S-14W	40*	803*	5.7*	186*	35*	126*	
1009	SCHROEDER & SNYDER	J. SCHROEDER	WALTERSBURG	6-2S-13W		1356*		294*		937*	
3931	SCHROEDER & SNYDER	SIEBERT BOTTOMS	HETHEL	22,27-2S-14W	105*	1299*	6.5*	80**	105*	847*	
			HETHEL	2,3,10-3S-14W	40*	4867*	2.7**	827**	40*	2142*	
			CYPRESS	34,35-2S-14W							
*3928	SHAKESPEARE OIL	ERKINES U	HETHEL	17,20,21,28,29-1S-13W		8754		1457		5255	
4216	JOE SIMPKINS OIL	HON-HUMP-CHAWFORD	CYPRESS	32,33-3S-14W,5-4S-14W	38*	3424*	5.3**	774**	96**	4960**	
			HETHEL		20*	482*					
			AUX VASES		38*	3418*					
*4217	JOE SIMPKINS OIL	ARKOW-MC ARIDE FTAL	MCCLOSKY	32,33-3S-14,15-4S-14W		762		1			
*4320	JOE SIMPKINS OIL	BOULTINGHOUSE	TAR SPRINGS	9,16,17-4S-14W		12037*		772*		9097*	
			CYPRESS								
			SAMPLE								
			HETHEL								
			AUX VASES								
*1016	SKILES OIL CORP.	SIEBERT BOTTOMS	CYPRESS	34-2S-14W		62					
*3957	SKILES OIL CORP.	BRISTEP 'F'	CYPRESS	35-2S-14W		186		36		42	
*4222	SKILES OIL CORP.	SMITH-DAVENPORT	CYPRESS	15-4S-14W		147		4		2	
*4287	SKILES OIL CORP.	CALVIN-GRIFFIN	CYPRESS	8-4S-14W		1				27	
			HETHEL			109		4		23	
			AUX VASES								
3935	SONJO PETROLEUM	O G UPDEGRAFF 'A'	CYPRESS	14-3S-14W	50*	9438	9.1	1744	506	15483	
			HETHEL								
			MCCLOSKY								
*3997	SONJO PETROLEUM	UPDEGRAFF 'A'	AUX VASES	14-3S-14W		429*		104		187	
3840	S. TRIANGLE CO.	TOWNSEND-WOLFF	WALTERSBURG	14-1S-13W	27*	160*	4.7*	28*	27*	160*	
3877	S. TRIANGLE CO.	SOUTH FORDICE U	HETHEL	6,7,8-1S-13W	150*	537*	17.8*	73*	150*	537*	
3960	SPARTAN O AND G	HELMONT NORTH UNIT	SALEM	18-1S-13W	36	76	12.5	32	14*	29*	
3885	STONE OIL CO	AKIN FLOOD	CYPRESS	7-3S-13W	18*	1021*	2.6*	67*	18*	398*	
			HETHEL								
			AUX VASES								
*4223	SUN OIL CO.	GREATHOUSE	MCCLOSKY	33-4S-14W, 4-5S-14W		1088		129		227	
*4269	SUN OIL CO.	FORD 'A' WATERFLOOD	MCCLOSKY	18-5S-14W		58		13		1	
*4235	SUPERIOR OIL CO.	KEFN-HON UNIT	TAR SPRINGS	32,33-4S-14W		1986		536		891	
*4236	SUPERIOR OIL CO.	NEW HARMONY FIELD U	AUX VASES	21,27,28,29,32,33,34-4S-14W,3,4,5-5S-14W		16673		*		*	
*4237	SUPERIOR OIL CO.	NEW HARMONY FIELD U	HETHEL	26,27,28,29,32,33,34-		32327		*		*	

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks
	Net pay Depth (ft)	thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	
Project no.								Inj.	Prod.			
NEW HARMONY C, EDWARDS, WABASH, WHITE												
CONTINUED												
3965	2150	20.0	17.1	44		04-61		3	2	80		
	2335	9.0				11-52		10	9	240		
	2640	14.0	17.1	44		12-51		17	8	255		
	2640	14.0	17.1	44		12-51		17	9	260		
3839	2020	8.0				7-62		1	2	40	PRODUCED (R)	*EST+ADJ. TO ACTIVE WF SINCE 1960
3866	1700	8.7	19.6	126	37.0	01-65		17	31	526	SH SO, PROD (M)	*ESTIMATED SINCE 1973
	2460	11.1	19.2	59	37.0			18	31	401		
3959	2420	22.0	20.0	200		11-58		7	5	270	GRAV, PROD (M)	
4305	2140	8.4	19.0		37.5	11-60		2	1	40	GRAVEL REO (F)	*ESTIMATED
	2200	9.3	15.5					1	2	40		
	2580	13.3	16.0	32				4	2	80		
	2700	14.7	16.0					1	2	30		
	2820	15.5	15.0	20				5	5	100		
4329	2695	9.0	15.0	15	37.0	09-61		2	4	60	GRAV, PROD (M)	*ESTIMATED
	2830	20.0	14.0	23	37.0			2	3	105		
4416	2698	30.0				07-67		1	1	20	PENN SO, PROD (R)	
*3843	2450	13.0				6-54	12-60	+	4	40	+	*EST.+ADJ. TO PROJS. 3934&3907-1954-1960
	2568	21.0						+	4	40		*EST., NO DATA RECEIVED
*3838	2440	13.0				6-64	8-72	2	5	80	PRODUCED (R)	*ADJ TO 3961 1959-72
	2580	20.0						2	5	80		*ESTIMATEU; +INCL ALL PAYS
4226	2550	10.0				06-57		6	9	180	RIVER GRAVEL (F)	
	2660	10.0				11-52		3	4	80		
	2800	15.0				11-52		8	8	160		
3861	1718	12.0			35.9	01-68		1	3	40	PRODUCED (R)	*EST; +INCL PRIM PROD SINCE 1-68
3837	1804	12.0				3-76		1	3	40	SH SO, (F)	*EST.; +INCL PRIM SINCE 1976
	2474	10.0						1	3	40		
4276	2550	14.0				06-59		3	4	80	SH SO, GRAV (F)	*ESTIMATED
	2680	16.0						1	3	50		
	2807	24.0						1	2	40		
*4275	2210	10.0	7.0	50		09-58	03-74	2	2	50	SH SO, PROD (M)	
	2575	6.5						4	4	80		
	2700	11.0						10	12	230		
	2810	18.0						10	11	210		
3974	1716	18.0				03-61		6	4	120	GRAV, PROD (M)	*ESTIMATED SINCE 1972
	1761	16.0	18.0	61				1	1	20		
	2269	13.0						6	4	120		
3985	1710	8.0	15.0	75	32.0	03-61		3	2	70	SH SO, PROD (M)	*ESTIMATED
	2310	14.0	16.0	50			12-64	3	2	60		
*3967	2550	22.0	15.0	36	38.4	08-60	07-70	7	4	160	SH SO, PROD (M)	
4317	2578	19.0			36.0	04-61		1	1	20	SH SO, PROD (M)	*ESTIMATED
	2672	19.0						1	1	20		
	2845	18.0						2	2	40		
4393	2580	10.0			36.0	07-63		1	1	20	SH SO, PROD (M)	*ESTIMATED
	2680	13.0						1	2	40		
	2830	10.0						1	2	40		
4401	2330	8.0				04-64		3	5	90	SH SO (F)	*ESTIMATED
4440	2200	20.0				01-68		+	4	40		*EST.+ACCIDENTAL OR DUMP FLOOD
	2125	12.0						+	2	20		
4455	2370					6-60		+	3	30	PRODUCED (R)	*EST.+ADJ TO 4317&4294 SINCE 60
	2966							+	1	10		
3870	1937	16.0	16.0	200		02-65		5	2	200	SH SO, PROD (M)	*ESTIMATED
3893	1937	8.0	16.0	320		11-63		3	3	70	GRAV, PROD (M)	*ESTIMATED
	2248	8.0	18.8	83				4	4	80		
*3995	2413	9.0				06-62	12-76	1	1	10	PRODUCED (B)	*ESTIMATED
3962	2303	14.0			35.0	10-59		1	5	60	PRODUCED (R)	
*3892	2320	12.0			33.9	10-63	05-70	5	6	180	SH SO, PROD (M)	*EST 1965-67 DATA ONLY
*4300	2598	18.0			35.6	01-61	01-72	5	4	150	SH SO, PROD (M)	
	2800	13.0				01-61	01-69	1	2	20		
	2910	10.0				01-61	01-69	1	2	60		
4392	2830	20.0	11.7	7	36.5	03-63		2	2	100	SH WELL (F)	*ESTIMATED SINCE 1976
*3895	2075	16.0	20.0	140	36.8	04-63	12-76	3	4	70	PENN SO, PROD (R)	*ESTIMATED 1976 DATA
1009	2730	20.0				02-69		2	9	130	PENN SO (R)	*ESTIMATED +INCL PRIM SINCE 2-69
3931	2680	18.0	17.0	75	36.0	10-51		6	9	150	GRAV, PROD (M)	*ESTIMATED SINCE 1976; *S=0 ONLY
*3928	2600	17.0	16.0	35	35.0	08-56	02-69	35	32	524	SH SO, PROD (M)	
4216	2600	9.0	15.0	8	35.0	09-56		12	8	240	GRAVEL REO (F)	*ESTIMATED; +INCL ALL PAYS
	2650	11.0						3	2	60		
	2800	14.3						9	11	200		
*4217	2900	9.4			34.5	09-56	12-59	4	7	120	GRAVEL REO (F)	
*4320	2200	15.0			36.0	11-59	1-77	3	2	50	GRAVEL REO (F)	*ESTIMATED
	2580	11.5	17.0	30				13	13	280		
	2690	10.0	11.0	13				3	3	60		
	2710	15.0	11.0					3	2	60		
	2830	18.0	20.0					15	15	320		
*1016	2566	12.0				08-58	02-62	1	2	30	GRAV, PROD (M)	
*3957	2531	13.0	17.0	20	39.5	10-56	04-66	2	1	20	GRAV, PROD (M)	
*4222	2630	10.0	17.7	145		05-55	10-57	1	2	30	TAR SPR, PROD (R)	
*4287	2552	10.0				09-59	12-62	1	2	30	GRAV, PROD (M)	
	2670	21.0						2	2	40		
	2800	20.0						2	1	30		
3935	2500	25.0	21.0	200	39.0	10-55		2	4	120	PRODUCED (M)	
	2640	7.0	17.7			06-66		2	2	60		
	2860	4.0				06-64		1	2	60		
*3997	2770	10.0	19.0			06-62	12-76	2	4	100	PRODUCED (R)	*INJ. SHIP. 1972
3840	1870	10.0				6-73		1	3	40	PRODUCED (R)	*ESTIMATED
3877	255	14.0				02-74		7	12	220	PRODUCED (B)	*ESTIMATED
3960	3450	15.0	10.0		39.0	12-75		2	6	140	TAR SPR AND PROD. (R)	*ESTIMATED
3885	2480	14.0				08-70		3	5	80	PRODUCED, FRESH (M)	*ESTIMATED 1977 DATA
	2640	18.0						2	1	40		
	2750	22.0						1	3	40		
	2830	10.0						2	1	60		
*4223	2900	5.0			36.9	08-47	02-57	1	2	90	GRAVEL REO (F)	
*4269	2900	7.0			38.0	05-48	07-52	1	1	40	GRAVEL REO (F)	
*4235	2250	13.3	17.3	85	37.4	02-54	01-70	1	1	121	GRAVEL REO (F)	
*4236	2830	8.9	17.9	48	37.0	11-56	01-70	33	32	660	RIVER GRAV, PROD (M)	*INCL WITH 4390
*4237	2710	12.4	15.4	32	37.0	11-56	01-70	33	48	1000	RIVER GRAV, PROD (M)	*INCL WITH 4390

TABLE 11. Waterflood operations

Field, County	General information					Production and injection statistics (M bbl)					
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
NEW HARMONY C, EDWARDS, WABASH, WHITE CONTINUED											
*4237	SUPERIOR OIL CO.				4S-14W, 3, 4, 5-S-14W						
4238	SUPERIOR OIL CO.	WALTERSBURG SAND UNIT	WALTERSBURG		4, 5, 9-S-14W	578*	19858*	0.8**	1621**	50**	2709**
4302	SUPERIOR OIL CO.	N.H.R. UNIT	TAR SPRINGS		9-S-14W	11	314	3.0	50	1	22
4311	SUPERIOR OIL CO.	NORTHEAST UNIT	TAR SPRINGS		14, 22, 23, 26, 27, 34-4S-		243	137.1*	2452*	1311*	10291*
			CYPRESS		14W	1026	9729				
			BETHMEL				267				
			AUX VASES			174	1780				
			MCCLOSKEY			1512	7117				
4390	SUPERIOR OIL CO.	NEW HARMONY FIELD U	JAMESTOWN		27, 28, 29, 32, 33, 34-4S-	335	999	324.4*	15390*	4660*	55927*
			CYPRESS		14W; 3, 4, 5-S-14W	8367	51670				
4391	SUPERIOR OIL CO.	NEW HARMONY FIELD U	WALTERSBURG		27, 28, 29, 32, 33, 34-4S-	1711	9571	*	*	*	*
			TAR SPRINGS		14W; 3, 4, 5-S-14W	845	4117	*	*	*	*
			CYPRESS		7, 18-S-13W	93	3016	5.6	697	19	1190
3948	A. K. SWANN	HEIL	TAR SPRINGS		17-4S-14W		163	*	*	*	*
*4333	TEXACO, INC.	BRAMLETT	CYPRESS		17-4S-14W		443	*	*	*	*
*4334	TEXACO, INC.	BRAMLETT	AUX VASES		21-4S-14W		229				
*4371	TEXAS AMERICAN	FORD	CYPRESS		5-2S-13W	25*	279*	2.8*	28*	25*	279*
3910	UNIVERSAL OPRNG	PARMENTER	BETHMEL								
			CYPRESS		4-2S-13W	125*	2195*	13.9*	292*	125*	2175*
3986	UNIVERSAL OPRNG	BUMP	BETHMEL								
			CYPRESS		4-4S-14W	33*	1378*	1.7*	151*	33*	258*
4341	WEST DRILLING CO	D. EVANS	WALTERSBURG		26, 27-2S-14W		1942*		283*		528*
*1028	GEORGE WICKHAM	SCHROEDER	CYPRESS								
*3981	CHARLES P. WOOD	G A STURHAN	RIFHL		10-1S-13W		39*		76		119
			CYPRESS								
NEW HAVEN C, WHITE											
*4247	ATLANTIC RICHFLD	NEW HAVEN U	TAR SPRINGS		17, 18, 19, 20-7S-11E		1844		696		73
			CYPRESS								
*4351	FRMERS PETR COOP	WASEH	TAR SPRINGS		24-7S-10E		590*		22		155
*4388	FRMERS PETR COOP	DEAD RIVER UNIT	TAR SPRINGS		13, 18-7S-10E		828		452		336
4289	JUNIPER PETROLEUM C	GREATHOUSE ISLAND U	TAR SPRINGS		7-7S-11E, 7-7S-14W	16*	535*	1.5*	50*	15*	160*
			CYPRESS								
4278	SUN OIL CO.	G.N. BOETTICHER	CYPRESS		19-7S-11E	69	248	20.8	168	67	254
NEW MEMPHIS, CLINTON											
417	ELMER DELZE	NEW MEMPHIS SEC. PFC.	DEV-SIL		33, 34-1N-5W; 3, 4-1S-5W	650*	7385*	34.5*	359*	650*	5065*
OAKDALE, JEFFERSON											
*2029	FAIRWAY PETROLEUM	HORRELL-NOVAK	AUX VASES		11, 14, 15-2S-4E		1295*		85*		1295*
*2014	TEXACO, INC.	GREEN-VANDERHEID	AUX VASES		12-2S-4E		554		17		247
OAKDALE N, JEFFERSON											
2018	FRMERS PETR COOP	NORTH OAKDALE UNIT	MCCLOSKEY		3-2S-4E	119	1387	6.4	339	119	1246
OAK POINT, CLARK, JASPER											
* 223	M AND E DRLG. CO	R. FINNEY	AUX VASES		31-9N-14W		73		7		81
225	M AND E DRLG. CO	FINNEY-PING-WARD	AUX VASES		30, 31, 32-9N-14W	78*	4010*	3.5*	202*	78*	3709*
ODIN, MARION											
2600	DORAN OIL PROP.	ODIN UNIT	CYPRESS		1, 12, 13-2N-1E; 6, 7, 14-2N-2E	58	8138	0.3	1322	37	87
OLO RIPLEY, BOND											
6	SAM PARKER	RIPLEY U	PENN		21, 28-5N-4W	10*	1228*	0.9*	95*	10*	405*
OLNEY C, JASPER, RICHLAND											
*3426	BELL BROTHERS	DUNDAS SOUTH UNIT	SPAR MTN		3, 10-4N-10E		4020		226		3090
*3435	U T DRILLING	NORTH OLNEY U	SPAR MTN		28, 32-4N-10E		330*		31*		81*
*3407	GULF OIL CO	EAST DUNDAS UNIT	MCCLOSKEY		25, 26, 35, 36-5N-10E		953		152		207
*1903	ILL. LSE. OP.	BESSIE	MCCLOSKEY		23-5N-10F		251*		44*		225*
*3414	J. W. RUOY DRLG.	STIFF	MCCLOSKEY		34-5N-10E		159		33		54
*1904	SOMIO PETROLEUM	DUNDAS EAST UNIT	OHARA		14-5N-10F		2003		142		1378
*3408	TEXACO, INC.	EAST OLNEY	MCCLOSKEY		23, 24, 25, 26-4N-10E		3634		269		1286
3420	TEXACO, INC.	OLNEY WATER FLOOD	MCCLOSKEY		27-4N-10F	74	4898	2.8	632	74	3850
*1914	TRI-STATE CASING	MILLER-EUNICE	MCCLOSKEY		23-5N-10E		1339		57		908
OLNEY S, RICHLAND											
*3422	M V RING	KURTZ-MARTZ	MCCLOSKEY		28-3N-10F		32				
OMAHA, GALLATIN											
1447	AMERICAN PUMP	OMAHA S PALESTINE U	PALESTINE		32-7S-8E	107	592	5.8	53	23	168
1448	AMERICAN PUMP	OMAHA S UNIT	HARDINSBURG		31, 32-7S-8E; 5, 6-8S-8E	199	2164	9.8	98	79	462
			CYPRESS								
			OHARA								
			SPAR MTN								
1443	EXXON	OMAHA	PALESTINE		35-7S-8E; 4-8S-8E	676	9954	64.3	705	479	5568
			TAR SPRINGS								
			AUX VASES								
1437	T. W. GEORGE EST.	OMAHA S UNIT	AUX VASES		34-7S-8E; 3, 4-8S-8E	202	3347	9.1	709	44	1122
*1414	HUMBLE O AND R	OMAHA	PALESTINE		33-7S-8E, 4-8S-8E		5763		3119		4436
1439	JUNIPER PETROLEUM C	CANE CREEK U	AUX VASES		4-8S-8E	63	1123	1.4	58	35	530
*1434	NAPCO	PHILLIPS FLOOD	CYPRESS		32-7S-8E		40		7		2
OMAHA S, GALLATIN, SALINE											
*1432	DAVID ROTSTEIN	WOLARD	CYPRESS		7-8S-8E		164				
OMAHA W, SALINE											
3623	ILL. MID-CONT.	OMAHA WEST	SAMPLE		36-7S-7E; 11-8S-7E; 6-8S-8E	155*	2138*	10.8*	147*	155*	1933*
ORCHAROVILLE, WAYNE											
4050	ALENE BLADES	LEE, SMELTON & ELLIS	OHARA		28, 32, 33-1N-5E	30*	90*	4.8*	13*	30*	90*
4093	DUNCAN LSE+ROY	ORCHAROVILLE	AUX VASES		29-1N-5E	25	397	2.3	108		



Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks	
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source:		Type:
								Inj.	Prod.		SD = Sand GRAV = Gravel PROD = Produced SH = Shallow		(F) = Fresh (B) = Brine (M) = Mixed
Project no.													
NEW HARMONY C, EDWARDS, WABASH, WHITE													
CONTINUED													
*4237													
4238	2206	43.0	19.2	475	38.0	10-53		3	15	200*	GRAV, PROD (M)	*ILL PORTION +INACTIVE 1963-76	
4302	2207	10.0	18.0	46	37.0	02-66		1	1	80	GRAVEL BED (F)		
4311	2193	8.0	16.0	40	36.0	02-66	05-70	2	13	160	GRAV, PROD (M)	*FROM CYPRESS, A.V., MCCLOSKEY	
	2600	12.0	16.0	100				7	16	240		*INCL ALL PAYS	
	2741	10.0	18.0	37			06-68	1	5	70			
	2850	19.0	15.0	12	36.0	12-66		10	12	230			
	2886	7.0	14.0	295		10-66		2	7	100			
4390	707	9.0	20.1	159	33.0	07-70		3	3	60	RIVER GRAV, PROD (M)	*INCL 4236, 4237, 4391	
	2550	10.0	17.0	37	37.0	08-64		106	109	313A			
4391	2120	10.0	18.0	47	37.0	08-64		15	30	400	RIVER, PROD (M)	*INCL WITH 4390	
	2210	8.0	17.0	40	37.0	08-65		12	15	220			
3948	2450	15.0				11-55		6	11	140	GRAVEL BED (F)		
*4333	2296	16.0			38.3	11-61	01-68	2	4	80	SH SD, PROD (M)	*INCL WITH 4335	
*4334	2670	25.0			38.3	11-61	12-68	2	3	80	SH SD, PROD (M)	*INCL WITH 4335	
*4371	2830	25.0				02-63	12-67	1	2	30	GRAV, PROD (M)		
3910	2410	13.0			36.9	04-67		1	1	20	PRODUCED (H)	*ESTIMATED	
	2530	7.0						1	1	20			
3986	2400	15.0				01-62		1	4	70	PRODUCED (H)	*ESTIMATED	
	2540	10.0						1	4	60			
4341	3000	5.0				10-49		1	4	50	GRAVEL BED (F)	*ESTIMATED	
*1028	2150	12.0				06-64	06-73	3	6	80	SH SD, PROD (M)	*ESTIMATED SINCE 1967	
	2640	12.0						2	4	60			
*3981	1780	10.0	16.3	25	33.0	03-61	08-68	1	1	20	PURCH, PROD (H)		
	2235	12.0						2	1	30			
NEW HAVEN C, WHITE													
*4247	2090	7.0	17.5	50	39.0	07-54	05-68	2	4	175	SH SD (F)		
	2435	10.0						10	10	260			
*4351	2135	10.0	18.0	350	37.0	07-62	01-74	1	3	90	GRAVEL BED (F)	*OPERATION SUSPENDED 1970	
*4388	2000	6.0	19.0	98	38.0	09-64	12-74	3	7	7A	GRAVEL BED (F)		
4289	2148	24.0	18.0	48	37.0	01-66		3	2	60	RIVER GRAV (F)	*ILL. PORTION OF THE PROJ. IS	
	2476	10.0	14.8	17				2	1	30		13.9% OF IND-ILL TOTAL	
4278	2435	12.0	15.0	45	36.0	08-59		1	4	40	SH SD (F)		
NEW MEMPHIS, CLINTON													
417	1960	99.0				06-68		3	23	580	SALEM, PROD (H)	*ESTIMATED	
OAKDALE, JEFFERSON													
*2029	2900	20.0				01-64	01-74	3	12	150	PRODUCED (H)	*EST. 4% PROD EST 40% PRIM, 1964	
*2014	2870	15.0	20.2	120	36.5	08-61	12-64	3	2	100	PENN SD, PROD (H)		
OAKDALE N, JEFFERSON													
2018	2931	10.0				06-64		4	7	170	POND, PROD (M)		
OAK POINT, CLARK, JASPER													
*223	1180	20.0			36.6	10-58	12-60	*	*	*	PENN SD (H)	*ACRFAGE & WELLS INCL. WITH 225	
225	1190	12.0	13.1	40	36.6	04-67		20+	14+	360+	GRAVEL BED (F)	*ESTIMATED +INCL ACRFAGE FOR 223	
OOLIN, MARION													
2600	1700	15.0	20.0	78	38.0	10-49	10-62	14	22	230	TAR SPR, PROD (H)	*SD 10-62 TO 12-75 +1976-77 ONLY	
OLD RIPLEY, BOND													
6	600	20.0			36.0	09-57		10	11	110	SH SD, PROD (M)	*EST. SINCE 1964 +INACTIVE 1975	
OLNEY C, JASPER, RICHLAND													
*3426	2991	4.7	15.4	281	40.0	09-63	01-73	10	7	740	PENN SD (H)		
*3435	2950	6.0				09-66	12-72	3	4	210	SH SD, CREEK (F)	*ESTIMATED SINCE 1967	
*3407	2985	6.0	12.5		41.4	10-56	09-62	5	4	220	PENN SAND (H)		
*1903	2925	5.0	12.0			01-61	10-72	1	1	80	PRODUCED (H)	*INACTIVE 1970-1972	
*3414	2935	7.0			40.0	04-66	01-72	2	2	90	CYPRESS, PROD (P)		
*1904	2900	8.0			35.0	04-55	05-61	4	7	120	CYPRESS (H)		
*3408	3100	5.3	13.8	522	37.0	03-51	04-71	6	16	458	PRODUCED (H)		
3420	3000	13.0	13.8	500	37.0	11-46		1	2	280	PRODUCED (H)		
*1914	2940	14.0	16.8	775	40.0	05-54	12-66	1	1	40	PRODUCED (H)		
OLNEY S, RICHLAND													
*3422	3150	6.0				06-61	01-62	1	4	50	CYPRESS (H)		
OMAHA, GALLATIN													
1447	1725	9.5	17.0	50	27.1	12-71		3	6	133	PRODUCED (H)		
1448	2175	12.0	14.0	10	35.0	03-71		3	2	60	SH SAND (F)		
	2375	5.0	15.0	50	36.0			1	1	20			
	2725	4.0	13.0	60	37.5			4	16	240			
	2780	4.0	13.0	20	37.5			1	2	50			
1443	1700	17.0	18.9	427	31.0	02-69		4	19	425	PRODUCED (H)		
	1950	20.0	16.4	20				3	3	100			
	2650	10.0	9.2	5				1	2	30			
1437	2710	12.0	12.0		41.5	10-65		6	9	253	PENN SD (H)		
*1414	1700	17.0	18.9	427	26.0	10-44	02-69	1	16	280	PRODUCED (H)		
1439	2678	30.0			37.6	11-65		2	7	100	SH SD, PROD (M)		
*1434	2760	20.0			37.0	05-65	11-66	1	1	20	CREEK, PROD (H)		
OMAHA S, GALLATIN, SALINE													
*1432	2541	19.0	12.4	24	27.0	10-60	12-63	1	1	20	TAR SPRINGS (H)		
OMAHA W, SALINE													
3623	2700	10.0				06-68		1	7	100	PRODUCED (H)	*ESTIMATED	
ORCHARVILLE, WAYNE													
4050	2880	9.0				7-75		3	3	70	PRODUCED (H)	*ESTIMATED	
4093	2835	10.0				08-65		1	3	40	SH SD, PROD (M)		

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
ORIENT, FRANKLIN	1335	V. R. GALLAGHER	ORIENT	AUX VASES	9-7S-2E	60*	438*	5.5*	197*	43*	159*
OSKALOOSA, CLAY	342	IVAN R. JONES	OSKALOOSA UNIT	AUX VASES	26,27,34,35-4N-5E	30*	2095*	1.3*	134*	30*	737*
* 307 TEXACO, INC.			OSKALOOSA UNIT	MCCLOSKEY BENOIST	26,27,34,35-4N-5E		158		1219		3393
PANA, CHRISTIAN	107	COLLINS BROS.	PANA	BENOIST	34,35-12N-1E,3-11N-1E	15*	15*	3.0*	3*	15*	15*
PARKERSBURG C, EDWARDS, RICHLAND											
*3432 ACHE CASING		RIOGLEY		MCCLOSKEY	30-2N-14W		82		7		44
*3415 REVIS O. CALVERT		PARKERSBURG		MCCLOSKEY	16,21-2N-14W		107		26*		43
*3424 CONTINENTAL OIL		KOERTGE 'B'		BETHEL	30-2N-14W		179		6		25
*3409 HARATHON OIL CO.		PARKERSBURG U		MCCLOSKEY	8-3N-9E		5134*		159*		1859*
*1017 V. T. ORLG. CO.		PARKERSBURG U		CYPRESS	6-1N-14W, 31-2N-14W		911*		145*		470*
PASSPORT, CLAY											
354 R & R OIL CO		PASSPORT UNIT		MCCLOSKEY	2-4N-8E, 35-5N-8E	16**	1709*	0.9*	210*	16*	61*
308 SHAKESPEARE OIL		STANLEY-HINTERSHER		MCCLOSKEY	12-4N-8E	32	797	3.1	72*	19	404
327 SHAKESPEARE OIL		PASSPORT U		MCCLOSKEY	11,12,14-4N-8E	8	11549	2.0	585	10	7334
PASSPORT S, CLAY, RICHLAND											
*3417 CONTINENTAL OIL		PASSPORT SOUTH UNIT		CYPRESS	18-4N-9E		406		43		76
PATOKA, MARION, CLINTON											
2639 FEAR AND OUNCAN		NW PATOKA		BENOIST	19,20-4N-1E	185*	5225*	9.2*	262**	185*	5225*
*2601 KARCHMER PIPE		PATOKA BENOIST		BENOIST	20,21,28,29-4N-1E		68093		6542		48046
2602 KARCHMER PIPE		PATOKA ROSICLARE		SPAR HTN	21,28,29-4N-1E	100*	6047*	4.5*	1593*	100*	6262*
*2603 KARCHMER PIPE		STEIN UNIT		CYPRESS	28-4N-1E		220		63		228
2614 KEWANE OIL CO.		W. PATOKA TRENTON U		TRENTON	1-3N-1W	169	9113	6.0	576	169	9113
					6-3N-1E, 31,32-4N-1E						
PATOKA E, MARION											
2638 HIGHLAND OIL CO		THALMAN		CYPRESS	35-4N-1E	*	*	12.4*	226*	80*	1200*
*2629 MOBIL OIL CORP.		F. H. PEDDICORD		CYPRESS	34-4N-1E		138		7		9
2616 FRED SEIP		HILL		CYPRESS	26-4N-1E	+	+	7.8*	64*	35*	300*
2631 SHELL OIL CO.		EAST PATOKA UNIT		CYPRESS	34-4N-1E	729	10992	21.9	571	510	7724
				BENOIST							
PATOKA S, MARION											
2640 E. M. SELF		OELAY		CYPRESS	9-3N-1E	*	*	2.1*	104**	16*	1150*
2627 JOE SIMPKINS OIL		PATOKA SOUTH		CYPRESS	4,5,8,9-3N-1E	250*	12020*	11.9*	952*	250*	6378*
2619 TRI STAR PROD CO		BENOIST-SANDSTONE U		BENOIST	5-3N-1E	225*	1963*	22.3*	434*	225*	1897*
PHILLIPSTOWN C, EDWARDS, WHITE											
4395 ABSHER OIL CO		GARFIELD-PARSON		AUX VASES	7-4S-14W	90*	2233*	6.3*	307*	75*	1240*
4323 N. A. BALORIDGE		MICHAELS-GREEN-STURM		CYPRESS	30-3S-14W	5*	330*	0.2*	14*	5*	261*
				BETHEL							
4257 BARGER ENG		PHILLIPSTOWN U		AUX VASES	6-5S-11E	153	1973	4.3	179	103	1947
4414 BARGER ENG		CLEVELAND		DEGONIA	36-4S-10E,1-5S-10E,	267	3240	4.7	415	2	3642
4432 BARGER ENG		PHILLIPSTOWN		TAR SPRINGS	31-4S-11E	678	2540	161.4	494	873	2594
				PENN	31-4S-11E/36-4S-10E						
4249 C. E. BREHM		PHILLIPSTOWN UNIT		TAR SPRINGS							
*4251 BRITISH-AMERICAN				AUX VASES							
4349 R. G. CANTRELL		N CALVIN UNIT		PENN	19,30-4S-14W,	16	1820*	0.7	191		
		PHILLIPSTOWN U		CYPRESS	30-4S-11E						
				PENN	31-3S-14W		3686		1215		2777
*4344 COY OIL CO		GREEN		DEGONIA	1-5S-10E,6-5S-11E	100**	2368*	6.1*	522*	100*	1027*
*4319 OUNCAN LSE+ROY		HETCALF		TAR SPRINGS							
4298 EASON OIL CO.		CLARK WATERFLOOD		BETHEL	30-3S-11E		61		11		8
				BIEHL	31-3S-14W		650		30		
				CLARK	30-4S-11E	122*	4036*	9.6**	619**	132**	1956**
				DEGONIA							
				BETHEL			1102*				
1029 FEAR AND OUNCAN		JOHNSON COOP		AUX VASES							
4243 FISK & FISK		RAWLINSON 7		MCCLOSKEY	18-3S-11E	75*	1518*	5.5*	88*	75*	586*
				DEGONIA	29-3S-14W	115*	954*	6.3*	115*	115*	878*
				CLORE							
				CYPRESS							
				BETHEL							
4245 FISK & FISK		MORRIS		AUX VASES							
4343 FISK & FISK		SEIFRIED WF		MCCLOSKEY							
				CYPRESS	29-3S-14W	10*	203*	1.5*	24*	10*	103*
				BIEHL	30-3S-11E	77*	1755*	4.0*	92*	77*	842*
				BETHEL							
*4373 V. R. GALLAGHER		CLEVELAND TAR SPRGS U		TAR SPRINGS	25-4S-10E		376		185*		146
4387 V. R. GALLAGHER		KUYKENOALL		CLRK-BROGPT	25-4S-10E	325	3429	23.2	303	165	1071
				RUCHANAN							
4224 GETTY OIL CO		N PHILLIPSTOWN		DEGONIA							
				PENN	18,19-4S-11E	548	5265	45.0	459	291	2779
				DEGONIA							
*4370 GETTY OIL CO		OENNIS "B" DEEP		CLORE							
				BETHEL	18-4S-11E		127		1		14
				AUX VASES							
*4277 KIRBY PETROLEUM		W.P.B.S. UNIT		MCCLOSKEY							
4284 W. C. MCBRIDE		ARNOLD		BETHEL	26,35-4S-10E		1791		160		949
				PENN	6-4S-14W	415	3548	52.2	946	399	2260
				WALTERSBURG							
*4250 MOBIL OIL CORP.		GRAYVILLE U		AUX VASES							
*4252 MOBIL OIL CORP.		N CALVIN		CYPRESS	20,29-3S-14W		787		144		552
*4369 E. H. MORRIS EST		MORRIS A, B		BIEHL	30,31-3S-11E		1156		426*		499
4342 ELMER H NOVAK		N CALVIN BIEHL U		CYPRESS	19,30-3S-11E		109*		3*		
4417 PAUL ORTMAN		CECIL & GILLISON		BIEHL	31-3S-14W	26*	829*	1.7*	46*	26*	697*
				BIEHL	31-3S-14W	24*	127*	1.5*	59**	24*	112*

## in Illinois, 1977—continued

Field, County	Reservoir statistics (avg. value)						Development as of 12-31-77				Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source:	Type:	
								Inj.	Prod.		SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	(F) = Fresh (B) = Brine (M) = Mixed	
Project no.													
ORIENT, FRANKLIN	1335	2670	15.0	18.9	75	38.9	10-66		1	3	40	TAR SPRINGS, PROD (B)	*ESTIMATED SINCE 1976
OSKALOOSA, CLAY	342	2641	10.0	13.0		37.0	12-63		3	3	100	PENN SD, PROD (B)	*ESTIMATED SINCE 1972
		2742	11.0			37.0			3	3	100		
* 307	2600	14.2	15.6	54	37.0	01-53	10-68		9	4	396	PENN SD, PROD (B)	
PANA, CHRISTIAN	107	1455	5.0				5-77		1	2	40	PRODUCED (B)	*ESTIMATED
PARKERSBURG C, EDWARDS, RICHLAND													
*3432	3190	8.0				04-65	02-69		1	3	80	PRODUCED (B)	
*3415	3060	10.0				01-55	01-56		2	7	160	PRODUCED (B)	*INCL PRIM PROD 1-55 TO 1-56
*3424	2960	15.0				09-59	07-64		1	1	20	PRODUCED (B)	
*3409	3130	8.0	18.0	800		03-55	12-64		5	5	200	CYPRESS, PROD (B)	*INCL 3416
*1017	2770	14.8	16.8	120		02-59	12-68		3	8	256	PENN SD, PROD (B)	*ESTIMATED 1965-68
PASSPORT, CLAY													
354	3025	10.0	15.0	35	38.0	06-65			3	2	160	PENN SD, PROD (B)	*ESTIMATED; +SWD ONLY
308	3000	9.0			37.0	09-57			1	2	40	PRODUCED (B)	*INCL PRIM PROD SINCE 9-57
327	3000	10.0	16.9	911	38.2	07-58			4	5	305	CYPRESS, PROD (B)	
PASSPORT S, CLAY, RICHLAND													
*3417	2700	8.0	15.0	60		07-59	06-64		2	2	100	PENN SD, PROD (B)	
PATOKA, MARION, CLINTON													
2639	1445	10.0				01-66			2	13	160	PRODUCED (B)	*EST +INCL PRIM PROD
*2601	1410	27.0	19.0	110	39.0	09-43	12-70		40	47	527	PRODUCED (B)	
2602	1550	9.0	18.8	223	40.0	07-48			21	12	445	PRODUCED (B)	*ESTIMATED SINCE 1971
*2603	1280	10.0	21.0	32	39.0	08-51	12-70		6	2	61	PRODUCED (B)	
2614	3930	17.0	8.0	3	43.0	06-61			11	14	520	PENN SD, PROD (B)	
PATOKA E, MARION													
2638	1340	15.0				06-65			*	10	100		*ADJACENT TO ACTIVE W.F. +EST
*2629	1370	19.0	19.2	62	38.6	06-66	01-68		2	1	30	TAR SPR, PROD (B)	
2616	1360	14.0				2-65			+	4	40		*EST, +ADJ. TO 2631 SINCE 65
2631	1350	18.0	20.0	139	36.0	06-65			7	14	150	TAR SPR, PROD (B)	
	1465	11.0	18.0	120					2	4	60		
PATOKA S, MARION													
2640	1350	7.0				10-64			*	4	80		*ADJ. ACT. WF +EST #INC PRIM 64-77
2627	1360	15.1				08-64			29	29	580	TAR SPR, PROD (B)	*ESTIMATED
2619	1456	14.0			36.5	02-64			6	13	200	TAR SPR, PROD (B)	*ESTIMATED SINCE 1976
PHILLIPSTOWN C, EDWARDS, WHITE													
4395	2885	15.0			38.5	04-61			1	3	222	PENN SD, PROD (B)	*ESTIMATED SINCE 1971
4323	2700	10.0				06-68			1	2	30	PENN SD (B)	*ESTIMATED SINCE 1971
	2825	6.0							1	2	30		
	2920	10.0							1	3	40		
4257	1928	16.0			36.0	12-69			2	3	40	PRODUCED (B)	
	2300	7.0				02-56			2	5	80		
4414	1935	15.0				11-67			4	4	90	PRODUCED (B)	
	2385	7.0				05-65			2	4	380		
4432	1350	20.0	20.0	200	36.0	11-73			5	20	150	RIVER GRAVEL (F)	
	2300	20.0	18.0	20					10	15	250		
	2850	10.0							5	5	100		
4249	1950	10.0	13.0	36	36.0	06-65			3	5	90	PENN SD, PROD (B)	*CUM. CORRECTED TO EARLIER DATA
	2730	10.0							2	4	60		
*4251	1550	29.0	17.6	86	32.0	06-51	11-63		9	9	180	TAR SPR, PROD (B)	
4349	1970	10.0	18.3	35	37.7	09-62			6	10	200	RIVER, PROD (M)	*ESTIMATED; +SWD ONLY
	2300	8.0	15.0	29	35.7				2	3	70		
*4344	2620	10.0	13.0	8	36.0	11-62	01-67		1	2	30	GRAV, PROD (M)	
*4319	1824	12.0			32.8	12-64	06-71		2	4	40	TAR SPR, PROD (B)	
4298	1350	15.0	22.2	275		04-70			8	8	80	SH SD, PROD (M)	*CLARK, DEG +BETHEL, AUX VASES
	1950	40.0	16.5	21		01-66			8	8	80		**ALL PAYS
	2810	14.0				06-60	12-65		4	7	110		
	2920	10.0				09-60	12-65		4	7	100		
1029	3116	5.0	12.0	100	37.0	05-64			2	5	140	PENN SD, PROD (B)	*ESTIMATED SINCE 1971
4243	1997	3.0				01-66			1	1	80	PRODUCED (B)	*ESTIMATED SINCE 1972
	2050	6.0							1	1	50		
	2700	14.0							1	5	60		
	2803	8.0							2	3	80		
	2910	11.0							1	3	50		
	3000	12.0							1	2	60		
4245	2700	10.0				07-67			1	3	30	PURCHASED (M)	*ESTIMATED
4343	1842	14.0	16.2	88	32.0	06-62			2	2	50	PENN SD, PROD (B)	*ESTIMATED SINCE 1972
	2820	11.0	14.2	10					3	4	150		
*4373	2310	9.0	18.3	68	33.9	10-63	10-72		3	2	110	PENN SD, PROD (B)	*INCL PRIM PROD SINCE 10-63
4387	1300	15.0				01-71			1	1	20	PENN SD, PROD (B)	*ESTIMATED SINCE 1976
	1490	15.0				07-64			2	2	40		
	1970	16.0				01-67			1	2	40		
4224	1400	10.0				01-70			2	2	40	PENN SAND, PROD (B)	
	1990	16.0				12-67			7	14	191		
	2035	6.0				12-67			3	4	80		
*4370	2845	15.0			34.0	05-71	07-72		2	2	37	PENN SD, PROD (B)	
	2930	25.0							2	2	37		
	3040	23.0							2	2	37		
*4277	2840	11.0	15.5	150	38.0	06-56	12-63		9	12	270	PENN SD, PROD (B)	
4284	1500	25.0	16.5	168		11-67			2	3	70	PENN SAND, PROD (B)	
	2290	5.0							2	1	30		
	2900	10.0	18.0	100					2	3	70		
*4250	2850	27.4	18.4	64		08-54	07-69		2	4	60	PRODUCED (B)	
*4252	1830	11.0			32.8	05-51	02-61		5	9	60	SH SD, PROD (M)	*INCL PRIM PROD 1951-1961
*4369	2700	10.0				08-63	12-65		3	4	40	SH SD (F)	*NO DATA SINCE 1964
4342	1800	25.0	17.7		32.0	6-63			3	3	30	PRODUCED (B)	*ESTIMATED
4417	1830	20.0			34.0	06-72			1	6	40	PRODUCED	*EST +ADJ TO ACTV WF SINCE 1964

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
PHILLIPSTOWN C, EDWARDS, WHITE CONTINUEO											
4421	LOUIS PESSINA	PHILLIPSTOWN FLOOD	8IEHL	19,30-3S-14W		354	3246	13.6	405	130	1869
4215	PHILLIPS PET. CO	KERN U	TAR SPRINGS	35,36-4S-10E, AUX VASES 1,2-5S-10E		54	1423	7.9	133	7	127
*4254	PHILLIPS PET. CO	LAURA	BETHEL	19-4S-11E			197		16		51
4255	PHILLIPS PET. CO	PHILLIPSTOWN UNIT	PENN	30-4S-11E/31-4S-14W		22	2109	16.2	403	2	520
			RETHEL								
			AUX VASES								
*4232	SKILES OIL CORP.	L.O. CLEVELAND	TAR SPRINGS	36-4S-10E			48				
4225	SUN OIL CO.	CARR-RENSHAW	CLORE	18-4S-14W		*	*	20.9	235	48	275
			AUX VASES								
			MCCLOSKEY								
*4256	SUN OIL CO.	PHILLIPSTOWN U	CLORE	6-5S-11E			234		110		58
*4270	SUN OIL CO.	PHILLIPSTOWN	TAR SPRINGS	6-5S-11E			58				251
*4315	TEXACO, INC.	PHILLIPSTOWN COOP	BETHEL	18-4S-14W			909		17		139
			AUX VASES								
			MCCLOSKEY								
*4253	WEST ORILLING CO	FLORA UNIT	DEGONIA	24-4S-10E			1471*		129*		1009*
4306	WEST ORILLING CO	LAURA JOHNSON	DEGONIA	19-4S-11E		70*	316*	7.0**	70**	142**	702**
			AUX VASES			33*	233*				
			OHARA			39*	249*				
PHILLIPSTOWN S, WHITE											
4357	REBSTOCK OIL CO.	GIVEN-BROWN	TAR SPRINGS	11-5S-10E		5*	595*	0.2*	145*	5*	184*
RACCOON LAKE, MARION											
*2617	TEXACO, INC.	ROSCICLARE-MCCLOSKEY U	SPAR MTN	3-1N-1E			1844		187		1909
			MCCLOSKEY								
2626	TEXACO, INC.	RACCOON LAKE UNIT	CYPRESS	3-1N-1E		341	3545	7.8	77	378	4725
			BENOIST				509				
RALEIGH, SALINE											
*3615	WALTER DUNCAN	SPURLOCK	CYPRESS	2-8S-6E			167*		53*		82*
3617	FARRAR OIL CO.	RALEIGH UNIT	CYPRESS	35-7S-6E, 2-8S-6E		75*	4981*	3.5*	947*	75	665*
*3605	KEWANEE OIL CO.	RALEIGH U	AUX VASES	10,15,16-8S-6E			1874		282		964
RALEIGH S, SALINE											
3627	BUFAY OIL CO	HARRISBURG NORTH U	WALTERSBURG	27-8S-6E		46**	158**	1.4	6	4*	34*
3618	HERMAN GRAHAM	S. RALEIGH U	AUX VASES	20-8S-6E		225*	2686*	17.7*	233*	225*	1954*
*3604	ILL. MIO-CONT.	RALEIGH UNIT	AUX VASES	20-8S-6E			1246*		64*		800*
3616	RK PET. CORP.	LEITCH ETAL	AUX VASES	20,21,28,29-8S-6E		31	1275	1.2	114	31	259
RAYMOND E, MONTGOMERY											
*2900	OARE PETROLEUM	FOSTER-POGGENPOHL	PENN	15,22-10N-4W			38*		6*		15*
RESERVOIR, JEFFERSON											
2030	FRMERS PETR COOP	WHITSON	MCCLOSKEY	21-1S-3E		18*	385*	2.3**	63**	18*	385*
2031	BURRELL G. MINOR	JOHNSN,MULVNY-SLEOGF	MCCLOSKEY	28,33-1S-3E		25*	495*	5.8*	82*	25*	495*
RICHVIEW, WASHINGTON											
4016	NICK BAHARE	CANTRELL-MARTOCCIO	CYPRESS	2-2S-1W		40*	384*	2.5*	45*	40*	349*
4015	N. A. BALDRIDGE	RICHVIEW	CYPRESS	2-2S-1W		300*	2833*	35.3*	509*	280*	2583*
4012	C. T. EVANS	RICHVIEW UNIT	CYPRESS	2-2S-1W		619	7150	8.7	437*	240	2497
4017	E. M. SELF	SKIRINSKI	CYPRESS	10-2S-14W		18*	406*	0.7*	46*	18*	321*
4014	GEORGE THOMPSON	THOMPSON	CYPRESS	35-1S-1W/2-2S-1W		99*	5149*	9.2*	324*	99*	2964*
RITTER N, RICHLAND											
*3430	ZANETIS OIL PROP	SE OLNEY U	SPAR MTN	18-3N-1E			92		5		54
ROACHES N, JEFFERSON											
*2009	TEXACO, INC.	ROACHES NORTH UNIT		5,8-2S-1E			2590		30		2081
ROCHESTER, WABASH											
3970	ASHLAND O AND R	NORTH ROCHESTER U	PENN	11,14-2S-13*		155	3891	2.6	454	92	1794
			WALTERSBURG								
3972	ASHLAND O AND R	ROCHESTER COOP	PENN	14-2S-13W		344	8015	2.1	284	90	1774
3968	YINGLING OIL, INC	KENNARD	PENN	14-2S-13W		+	11592**	+	783**	+	4585**
			WALTERSBURG								
ROLAND C, GALLATIN, WHITE											
4314	AOSHER OIL CO	NORRIS CITY	HARDINSBURG	11,14-6S-8E		8*	612*	0.2*	64*	8*	209*
4435	N. A. BALORTIOGE	PORTER	WALTERSBURG	12-7S-8E		3*	518*	0.1*	38*	3*	518*
			CYPRESS								
			AUX VASES								
4413	WM. BECKER	CROZIER-SILLIMAN	HARDINSBURG	36-5S-8E		28*	758*	2.4*	49*	28*	758*
4324	ENERGY RESOURCES	N ROLAND U	AUX VASES	35-6S-8E/2-7S-8E		19*	168*	1.3*	9*	19*	153*
4350	ENERGY RESOURCES	S ROLAND U	CYPRESS	10,11-7S-8E		85*	991*	4.4*	67*	85*	707*
			AUX VASES								
*1418	EXXON	S. ROLAND	AUX VASES	16,21,22-7S-8E			1583*		198		896
4258	EXXON	S.W. ROLAND	WALTERSBURG	14,15,16-7S-8E		1297	36492	51.5	2751	616	11846
			AUX VASES								
4266	EXXON	ROLAND AREA U I	CYPRESS	2,11-7S-8E		342	9204	35.6	1468	676	7642
			BETHEL								
			AUX VASES								
4436	FARRAR OIL CO.	MARTIN	AUX VASES	13-7S-8E		135*	705*	9.7*	55*	135*	705*
4396	FEAR AND DUNCAN	MOBLEY-GREER	TAR SPRINGS	25-6S-8E		67*	486*	3.1*	65*	67*	413*
*4361	F. J. FLEMING	ODERNER UNIT WF	WALTERSBURG	12,13-7S-8E			1458		80		888*
*4262	T. W. GEORGE EST.	PANKEY-MOOREHEAD UNIT	CYPRESS	17,20-7S-8E			55*				
*4259	HUMBLE O AND R	STOKES U	HARDINSBURG	5,8-6S-9E			755		543		1270
4375	LOOK OIL CO	ATCHLEY	CLORE	17-6S-9E		55*	593*	3.0*	35*	55*	349*
*4347	E. F. MORAN, INC	NORRIS CITY	CYPRESS	33-6S-8E			771		15		
			BETHEL								
*1446	MURVIN OIL CO.	ROLAND POOL U	BETHEL	24-7S-8E			1307*		57*		521*
4419	MURVIN OIL CO.	ROLAND	CYPRESS	13,14,24-7S-8E		135*	1698*	7.3*	166*	135*	1203*
			BETHEL								
			AUX VASES								
*4407	NAPCO	HUGHES FLOOD	CYPRESS	4,9-6S-9F			458		14		164
4403	NATIONWIDE ENERGY	ROLAND U	CYPRESS	1,12,13-7S-8E		200*	3215*	10.8*	247*	200*	1274*



Index, 1977-1978													
Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks	
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow		Type: (F) = Fresh (B) = Brine (M) = Mixed
Project no.								Inj.	Prod.				
PHILLIPSTOWN C, EDWARDS, WHITE CONTINUED													
4421	1830	15.0				02-68		5	17	240	PRODUCED (B)		
4215	2380	13.0			36.0	03-68		1	2	30	WELL, PROD (M)		
	2950	18.0	20.0	60				2	4	90			
*4254	2800	10.0	15.0	46	37.0	03-52	01-64	2	2	40	PRODUCED (B)		
4255	1850	47.0				08-71		1	5	60	PRODUCED (B)		
	2800	18.0				10-57		6	2	80			
	2930	24.0				10-57		2	5	80			
*4232	2300	12.0				11-55	01-58	1	2	30	PENN SAND (B)		
4225	2015	20.0			36.0	01-68		*	3	40			*INJ. WELLS ARE LINE WELLS
	2895	18.0						*	1	20			
	3040	8.0						*	2	60			
*4256	2000	10.0				12-55	06-60	1	5	50	PRODUCED (B)		
*4270	2248	10.0			34.5	01-53	06-54	1	9	10	PRODUCED (B)		
*4315	2800	17.0	14.2	7	36.3	03-69	01-72	4	3	70	PRODUCED (B)		
	2900	10.0	14.2	31				4	3	70			
	3050	10.0					08-70	4	4	80			
*4253	2000	15.0	19.0	100	37.0	09-53	06-74	2	5	70	PRODUCED (B)		*ESTIMATED
4306	1980	20.0				08-69		1	2	40	PRODUCED (B)		*ESTIMATED; *INCL ALL PAYS
	2960	9.0						1	2	40			
	3035	10.0						1	1	30			
PHILLIPSTOWN S, WHITE													
4357	2320	12.0	18.1	33		12-62		2	3	60	SH SO (F)		*ESTIMATED
RACCOON LAKE, HARRISON													
*2617	1900	6.9	14.0	199	36.0	07-61	12-74		3		PRODUCED (B)		
	1925	5.2	11.0	292									
2626	1650	15.0			35.0	03-65		2	4	120	PRODUCED (B)		
	1730	15.0					05-69	1	1	70			
RALEIGH, SALINE													
*3615	2550	10.0			32.0	05-64	12-74	1	1	20	PENN SO, PROD (B)		*ESTIMATED
3617	2553	14.0			33.7	05-62		18	14	350	CYPRESS, PROD (B)		*ESTIMATED 1969-75
*3605	2945	10.0	24.0	472	39.0	10-60	12-66	3	4	70	PAINT CK, PROD (B)		
RALEIGH S, SALINE													
3627	2050	13.0				01-75		1	2	80	PENN (B)		*EST. SURFACE INJ.; *ESTIMATED
3618	2840	12.5	18.4	130	38.0	08-64		3	4	80	PENN SO, PROD (B)		*ESTIMATED
*3604	2850	15.0		176	40.4	12-60	01-70	1	3	40	PENN SO, PROD (B)		*ESTIMATED 1964-1969
3616	2850	15.0	15.0		36.0	03-64		3	1	110	PRODUCED (B)		
RAYMOND E, MONTGOMERY													
*2900	595	6.0			34.1	08-59	12-67	2	2	20	PENN SO, PROD (B)		*ESTIMATED
RESERVOIR, JEFFERSON													
2030	2720	14.0				10-64		1	2	50	PRODUCED (B)		*EST. *INCL. PRIM SINCE 64
2031	2740	12.0				6-66		1	3	50	PRODUCED (B)		*EST. *INCL. PRIM SINCE 66
RICHVIEW, WASHINGTON													
4016	1500	20.0				09-71		1	6	70	TAR SPR, PROD (B)		*ESTIMATED
4015	1480	20.0				03-70		4	10	140	TAR SPR (B)		*ESTIMATED
4012	1485	13.0	21.0	117	39.0	10-66		5	9	97	TAR SPR, PROD (B)		*INCL. PRIM PROD SINCE 3-66
4017	1480	25.0				01-71		*	2	20			*ADJ TO ACTIVE WF, DATA EST
4014	1477	20.0				09-63		1	7	100	TAR SPR, PROD (B)		*ESTIMATED
RITTER N, RICHLAND													
*3430	3190	4.0			38.8	09-64	12-65	1	3	160	PENN SAND, PROD (B)		
ROACHES N, JEFFERSON													
*2009	1930	10.7	14.8	134	37.2	08-60	10-73	4	18	460	PRODUCED (B)		
ROCHESTER, WABASH													
3970	1285	12.0	19.0	100	40.1	07-60		2	3	80	GRAVEL RED (F)		
	1960	20.0	18.9	100				2	5	90			
3972	1285	12.0			30.5	01-60		3	2	70	GRAV, PROD (M)		
3968	1350	30.0	17.0	150	33.0	07-60		5	8	80	SH SO, GRAV (F)		*ESTIMATED; *NO DATA SINCE 1975
	1950	20.0	18.0	200	37.0			5	5	80			
ROLAND C, GALLATIN, WHITE													
4314	2575	8.0	16.0	30	36.6	10-69		5	4	110	SH SAND (F)		*ESTIMATED SINCE 1972
4435	2190	12.0				01-62		1	2	30	PRODUCED (B)		*ESTIMATED
	2600	18.0						1	2	40			
	2900	10.0						1	2	40			
4413	2636	14.0	17.0	106	38.0	03-63		2	3	280	PRODUCED (B)		*ESTIMATED
4324	2950	10.0				06-70		2	6	130	PENN SO (B)		*ESTIMATED SINCE 1972
4350	2650	8.0				04-70		2	4	60	PENN SO (B)		*ESTIMATED SINCE 1972
	2950	10.0						2	4	60			
*1418	2920	15.0	16.2	61	40.0	06-59	01-76	2	2	120	PENN SO (B)		*NO INJ SINCE 1975
4258	2175	14.0	19.5	275	31.0	06-55		13	19	560	PENN SO, PROD (B)		
	2900	12.0			39.0			2	4	110			
4266	2700	20.0	16.6	65	31.6	06-66		14	12	450	PENN SO, PROD (B)		
	2775	9.0	12.4	12				1	4	130			
	2900	6.0	13.8	14				8	15	910			
4436	2870	18.0				06-73		1	3	40	PRODUCED (B)		*ESTIMATED
4396	2332	10.0	23.9	77		02-62		1	2	80	PRODUCED (B)		*ESTIMATED SINCE 1970
*4361	2200	15.0	18.0		31.0	06-62	01-68	4	4	80	PENN SO, PROD (B)		*ESTIMATED
*4262	2620	20.0	14.0	16		10-56	12-58	2	2	40	TAR SPR, PROD (B)		*ESTIMATED, O.F.
*4259	2530	11.6	18.8	256	35.8	07-54	12-66	7	10	170	PRODUCED (B)		
4375	1991	12.0			38.0	08-67		2	1	20	PALESTINE, PROD (B)		*ESTIMATED
*4347	2685	5.0				07-66	10-68	2	2	40	PENN SAND (F)		
	2800	30.0						4	4	80			
*1446	2750	18.0	14.0	35	38.0	01-70	06-74	8	11	200	PENN SO (B)		*ESTIMATED
4419	2590	8.0				04-69		2	3	50	PRODUCED (B)		*ESTIMATED
	2750	8.0						2	3	50			
	2860	15.0						6	16	260			
*4407	2740	14.0			37.0	04-65	01-72	3	2	60	PRODUCED (B)		
4403	2600	10.0	15.2	38		01-67		7	10	230	TAR SPRINGS (B)		*ESTIMATED SINCE 1971

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
ROLAND C, GALLATIN, WHITE CONTINUEO											
	4403	NATIONWIDE ENERGY		BETHEL							
				AUX VASES							
*4418	DENNIS PAINE	COLLINS-ANDERSON		BETHEL	16-7S-8E		193*		42*		81*
4422	PETRO INTERNATIONAL	GENTRY & LOWRY		TAR SPRINGS	13-6S-8E	120*	1513*	7.4**	124*	120*	1035*
				CYPRESS							
4310	RE8STOCK OIL CO.	GEN AMER LIFE		CLORE	1-7S-8E	350*	2857*	6.0*	136*	300*	2136*
				WALTERSBURG							
				CYPRESS							
				BETHEL							
				AUX VASES							
*1413	ROYALCO, INC.	OMAHA U		WALTERSBURG	20,21,28,29-7S-8E		12070		593		3896
*4318	ROYALCO, INC.	E. ROLANO		AUX VASES	2,3-7S-8E		1702		107		425
*4261	SHELL OIL CO.	IRON UNIT		HAROLDSBURG	23,24,25-6S-8E		18512		2254		9380
4322	JOE SIMPKINS OIL	ROLANO POOL U		WALTERSBURG	10,11-7S-8E	80*	1887*	4.5*	131*	80*	1017*
				BETHEL							
				AUX VASES							
4214	SUN OIL CO.	ROLANO POOL U AREA II		CLORE	1,2,11,12,13,14-7S-8E	4780	43276	79.6	3332	2286	20570
				WALTERSBURG	36-6S-8E						
				TAR SPRINGS							
				CYPRESS							
				BETHEL							
				AUX VASES							
4244	SUN OIL CO.	ROLANO WEST U		CYPRESS	4,9-7S-8E	463	4392	22.6	274	301	2461
				BETHEL							
				AUX VASES							
				SPAR MTN							
*4260	UNION OIL CALIF.	STOKES-BROWNSVILLE U		HAROLDSBURG	36-5S-8E,31,32-5S-9E, 1,11,12-6S-8E,6-6S-9E		16366		2290		9607
4385	UNION OIL CALIF.	WALNUT GROVE U		TAR SPRINGS	7,8,17,18,19-6S-9E	1661	25454	89.4	2658	1437	12752
				CYPRESS							
				PAINT CREEK							
				BETHEL							
				AUX VASES							
				OHARA							
				SPAR MTN							
*1435	WAUSAU PET. CORP	GOSSETT		HCCLOSKEY	19,20-7S-8E		693		81		125
				CYPRESS	18-7S-8E						
RUARK, LAWRENCE											
2267	MEPCO, INC.	RUARK WFU		PENN	7-2N-12W	65*	893*	3.3*	147*	65*	379*
2295	OLOS OIL & CHEM.	KING UNIT		RIEHL	8-2N-12W	20	20	1.0	1	3	3
RUARK W, LAWRENCE											
2284	CITIES SERVICE	W. RUARK U		BETHEL	12,13-2N-13W	176	6458	6.7	678	211	4058
*2293	E B REYNOLDS EST.	WIRTH		BETHEL	13-2N-13W	+	+		34*		200*
*2290	JOE WILLIAMS	W W PROUT		BETHEL	12-2N-13W		*		32*		
RURAL HILL N, HAMILTON											
*1515	ACME CASING	MOORE UNIT		CYPRESS	34,35-5S-5E		1539		210		544
ST FRANCISVILLE, LAWRENCE											
2263	HAROLD BRINKLEY	PEPPLE AND MOODY		BETHEL	19,20-2N-11W	*	787*	*	29*	*	318*
*2278	LOGAN OIL CO.	WILSON 'B'		BETHEL	20-2N-11W		31				
*2228	OIL RECOVERY, INC	ST FRANCISVILLE		BETHEL	20-2N-11W		90				
ST. FRANCISVILLE E, LAWRENCE											
*2218	BAUER BROTHERS	ALL STATES LIFE		BETHEL	22-2N-11W		3528		267		1145
ST JACOB, MADISON											
2506	BELLAIR OIL	ELLIS WF		TRENTON	27-3N-6W	70*	2158*	6.3*	123*	70*	1136*
2503	WARRIOR OIL CO.	TRENTON LINE UNIT		TRENTON	15,16,21,27-3N-6W	386	7874	13.4	613	297	4819
2505	WARRIOR OIL CO.	S. ST. JACOB UNIT I.		TRENTON	27-3N-6W	248	2734	6.3	90	199	2154
ST JAMES, FAYETTE											
1238	N. A. BALDRIDGE	WILLIAM SMAIL		CYPRESS	25,36-6N-2E	95*	1861*	5.1*	230*	95*	2549*
1245	W. L. BELOEN	ST JAMES		CARPER	25-6N-2E,30-6N-3E	27	913	6.1*	68**	27*	913*
1250	W. L. BELOEN	ST JAMES NORTH		CARPER	19,30-6N-3E	208	2242	4.8*	122**	208*	2242*
1253	H-S-C- CORP	SMITH-STEPHENS		CYPRESS	31-6N-3E	450*	9218*	27.3*	600*	450*	9218*
1240	MARATHON OIL CO.	ST. JAMES 1-C		CYPRESS	36-6N-2E, 30,31-6N-3E	484	9549	55.0	1382	450	6749
*1222	HENRY ROSENTHAL	WASHBURN		CYPRESS	30-6N-3E		1000*		198*		1000*
1251	HENRY ROSENTHAL	WASHBURN		CARPER	30-6N-3E	325	3174	8.4	89	325	963
1239	TEXACO, INC.	ST. JAMES WF		CYPRESS	25-6N-2E,30,31-6N-3E	625	6518	13.0	476	579	6542
STE MARIE, JASPER											
*1912	MURVIN OIL CO.	STE. MARIE		SPAR MTN	7-5N-11E		*		12*		*
*1905	J. R. RANDOLPH	STE. MARIE WF		MCCLOSKEY	5,6,7,8-5N-14W		1900		191		62
*1923	S AND M OIL CO.	STE MARIE U		MCCLOSKEY	1-5N-10EJ 6-5N-11E		1620		78		327
1920	C. R. WINN	WADE 2		MCCLOSKEY	5,6-5N-14W	10*	652*	0.5*	31*	10*	470*
SAILOR											
385	SPRINGS C, CLAY, EFFNGHAM, JASPER	CAILTEAUX-MEDLEY		CYPRESS	12-3N-7E	30	600**	4.6	90**	30	600**
	ABCO OIL OP.			SPAR MTN							
				CYPRESS	12-3N-7E	12*	300*	2.0*	49**	12*	300
*318	ABSMER OIL CO	DUFF		MCCLOSKEY	16,21-3N-7E		2173		195		2605
377	ASHLAND O AND R	E W KECK LEASE		MCCLOSKEY	35-4N-7E	*	181*	5.0	34	37	182
348	BANGERT CASING	STASER U		CYPRESS	12,13,14-3N-7E	72*	2677*	1.8*	192*	72*	1084*
370	BANGERT CASING	ARMSTRONG U		CYPRESS	3,10-3N-7E	*	210*	1.5*	15*	30*	129*
386	BANGERT CASING	DUFF		CYPRESS	12-3N-7E	15*	620*	2.0*	55**	15*	620*
*309	CITIES SERVICE	WYATT		AUX VASES	13-5N-7E		871		40		446
				SPAR MTN							
359	WALTER DUNCAN	GOULO UNIT		CYPRESS	15-5N-7E	335*	3708*	18.2*	1232*	335*	3290*
388	WALTER DUNCAN	H.O. LEWIS		CYPRESS	9-5N-7E	+	+	11.4*	188*	70*	900*
1102	WALTER DUNCAN	BRINK		CYPRESS	34-6N-7E	65*	2564*	2.9*	537*	65*	1807*
1116	WALTER DUNCAN	KLUTHE		CYPRESS	33-6N-7E	75*	790*	5.3*	298*	75*	2187*
374	J. C. FRANKLIN	NW CLAY		CYPRESS	2-3N-7EJ 35-4N-7E	56*	567*	3.2*	75*	56*	597*
				AUX VASES							

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks	
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source:		Type:
								Inj.	Prod.		SD = Sand GRAV = Gravel PROD = Produced SH = Shallow		(F) = Fresh (B) = Brine (M) = Mixed
Project no.													
ROLAND C, GALLATIN, WHITE													
CONTINUED													
4403	2800	15.0				03-69		2	6	80			
	2920	9.0				01-70		1	1	20			
*4418	2795	15.0				02-64	04-75	1	2	30	PRODUCED (B)	*NO PRODUCTION, 1975	
4422	2310	15.0				01-71		3	4	70	PRODUCED (B)	*EST +INCL PRIM PROO	
	2710	10.0						3	3	60			
4310	1960	6.0	18.7	150		10-68		2	1	30	FRESH, PROD (M)	*ESTIMATED SINCE 1973	
	2185	12.0	19.8	264				4	4	80			
	2620	5.0						1	1	20			
	2800	8.0	13.3	73				4	4	80			
	2900	8.0	12.0	70				1	1	20			
*1413	1695	14.0	19.0	225	37.2	03-53	04-73	16	17	336	PRODUCED (B)		
*4318	2935	20.0	14.2	4	35.6	12-61	07-69	8	8	260	SH SO, PROD (M)		
*4261	2500	25.0	17.6	152	37.0	12-50	04-66	20	24	440	CYPRESS, PROD (B)		
4322	2150	15.0				07-69		4	6	160	PENN SAND (B)	*ESTIMATED	
	2740	10.0						4	6	160			
	2870	15.0						6	8	180			
4214	1900	9.0				04-68		4	7	120	WELL, PROD (M)		
	2200	12.0						16	25	440			
	2250	7.0						2	6	90			
	2500	11.0						13	25	400			
	2750	14.0						21	32	550			
	2900	21.0						4	31	150			
4244	2620	14.0	14.0	34	37.0	02-66		7	12	200	PENN SO (B)		
	2725	9.0	11.0					5	12	180			
	2925	15.0	16.5	55				6	9	160			
	3000							1	1	40			
*4260	2628	15.0	17.0	106		08-55	08-67	38	31	1142	PENN SO, PROD (B)		
4385	2300	12.4				02-67*		16	14	300	PRODUCED (B)	*UNIT EFFECTIVE 7-66	
	2640	10.5	18.0	60				14	13	302			
	2790	10.0	17.0	50				5	5	100			
	2880	22.0						23	20	449			
	2900	10.0						14	13	278			
	2940	3.0						5	5	100			
	2970	3.0						19	5	200			
	3060	1.3						2	2	63			
*1435	2550	12.0	18.5	80	38.0	07-64	05-70	3	7	100	PENN SO, PROD (B)		
RUARK, LAWRENCE													
2267	1640	8.0	16.0	105	33.8	04-63		1	2	56	SH SO (F)	*ESTIMATED SINCE 1973	
2295	1503	7.0			33.0	4-77		1	1	40	SH,SO		
RUARK W, LAWRENCE													
2284	2250	17.0	16.0	100	38.0	08-65		20	15	370	TAR SPR, PROD (B)		
*2293	2234	11.0				08-65*	07-72	+	2	20	+	*EST.+WINOOW IN ACTIVE WF	
*2290	2260	10.0				01-67	1-77	*	2	30		*AOJ ACTIVE WF,NO INJ +EST	
RURAL HILL N, HAMILTON													
*1515	2400	10.0	13.8	22	35.5	05-60	01-69	3	2	140	PRODUCED (B)		
ST FRANCISVILLE, LAWRENCE													
2263	1840	12.0			41.0	04-62		2	5	80	GRAV, PROD (M)	*NO DATA SINCE 1973	
*2278	1850	10.0	18.5	65		11-64	12-66	1	1	30	CYPRESS (B)		
*2228	1865	12.0	17.5	43	38.0	12-50	06-54	2	1	30	SH SO, PROD (M)		
ST. FRANCISVILLE E, LAWRENCE													
*2218	1740	27.0	17.0	40	36.5	11-57	11-72	6	9	160	RIVER GRAVEL (F)		
ST JACOB, MADISON													
2506	2340	20.0	6.0		35.6	11-65		4	7	230	SH SO, PROD (M)	*ESTIMATED SINCE 1972	
2503	2351	15.7	9.6	11	37.0	08-62		12	12	442	AUX VASES, PROD (B)		
2505	2320	18.0	9.6		36.0	11-65		2	5	180	AUX VASES, PROD (B)		
ST JAMES, FAYETTE													
1238	1560	16.0	20.0	150		07-63		3	6	50	PRODUCED (B)	*ESTIMATED SINCE 1971	
1245	3130	42.0			37.4	12-65		1	5	60	PRODUCED (B)	*INCL PRIM PROD SINCE 1-66 +EST	
1250	3100	20.0				01-66		1	6	180	PRODUCED (B)	*EST +INCL PRIM PROO	
1253	1600	10.0				01-61		3	16	175	PRODUCED (B)	*ESTIMATED	
1240	1600	22.0	18.0	230		08-63		11	26	588	PRODUCED (B)		
*1222	1595	20.0			34.0	03-54	12-62	3	9	100	PRODUCED (B)	*1959-1962 ESTIMATED	
1251	3090	45.0	11.0			04-68		1	5	90	PRODUCED (B)		
1239	1600	13.4	19.6	76	37.0	05-63		3	10	200	PRODUCED (B)		
STE MARIE, JASPER													
*1912	2910	10.0			36.2	11-61	12-65	2	6	160	CYPRESS (B)	*O.F.,UNKNOWNJ +DATA ESTIMATED	
*1905	2860	7.0				10-48	12-60	1	14	400	CYPRESS (B)		
*1923	2850	8.0	15.0	300	39.0	04-68	12-72	2	7	140	GRAVEL REQ (F)		
1920	2822	5.0			37.0	01-66		1	2	60	RIVER GRAVEL (F)	*ESTIMATED	
SAILOR SPRINGS C, CLAY, EFFNGHAM, JASPER													
385	2600	12.0				6-58		1	5	60	PRODUCED (B)	*EST.+NO DATA FURNISHED	
	2970	8.0						1	2	30		*INCL PRIM SINCE 66	
393	2625	12.0				6-55		1	4	50		*EST.+INCL PRIM SINCE 58	
*318	2950	6.0	16.0	800	36.7	11-56	12-66	3	9	160	PRODUCED (B)		
377	2961	10.0			37.0	12-72		1	4	80	PRODUCED (B)	*INJ TERMINATED 9-1-76	
348	2620	20.0	16.0	20		06-65		6	4	100	PENN SO, PROD (B)	*ESTIMATED 1977 DATA	
370	2600	10.0				07-71		2	3	110	PENN SO, PROD (B)	*INJ CURT. 5-74 TO 5-77; +EST 77	
386	2625	15.0				7-55		2	4	60	PRODUCED (B)	*EST.+INCL PRIM SINCE 55	
*309	2770	9.2	17.0	50	35.0	09-53	12-61	2	2	40	PENN SO, PROD (B)		
	2845	10.0				01-61	01-62	1	1	20			
359	2500	15.0	16.0	130		01-66		5	9	130	PENN SO (B)	*ESTIMATED SINCE 1973	
388	2525	12.0				1-65+		+	8	80	PRODUCED (B)	*EST.+AOJ TO ACTIVE WF 3658363	
1102	2530	18.0				12-57		2	5	90	PENN SO, PROD (B)	*ESTIMATED SINCE 1973	
1116	2520	15.0				05-69		1	5	80	PRODUCED (B)	*ESTIMATED SINCE 1973	
374	2600	12.0				12-70		2	4	80	PRODUCED (B)	*ESTIMATED	
	2840	12.0						2	4	80			



TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
SAILOR SPRINGS C, CLAY, EFFNGHAM, JASPER CONTINUED											
	389	J. C. FRANKLIN	DICKEY	CYPRESS	3-3N-7E	+	+	1.2**	49**	10	250
	1114	J. C. FRANKLIN	REINHART, STORTZUM	CYPRESS	22-6N-7E	145*	1720*	8.7*	188*	145*	1215*
	* 310	GULF OIL CO	R. KECK	CYPRESS	26-4N-7E		65		11		37
	* 339	GULF OIL CO	SAILOR SPRINGS UNIT	CYPRESS	26-4N-7E		315		49		70
	1118	GULF OIL CO	F. H. KLUTHE	CYPRESS	33-6N-7E	*	*	41.4	689	58	304
	328	C. O. MAGAN	SAILOR SPRINGS	TAR SPRINGS	26-4W-7E	47*	2934*	2.4*	171*	47*	2356*
				CYPRESS							
	356	JET OIL CO.	BIBLE GROVE UNIT	CYPRESS	10-5N-7E	608	1018	12.0	1300	167	4620
	* 1107	JET OIL CO.	BLUNT COMM U	MCCLOSKY	17, 20-6N-7E		970		102		655
	329	JUNIPER PETROLEUM C	N SAILOR SPRINGS	CYPRESS	2-4N-7E, 35-5N-7E	29	4379	3.1	215	29	1876
				AUX VASES							
				SPAR MTN							
	1100	KEN-TEX	BIBLE GROVE	SPAR MTN	28, 29-6N-7E	48*	4670*	2.6*	450*	48*	1990*
				MC CLOSKEY							
	* 1103	KINGWOOD OIL CO.	NADLER AND JOFGENS	CYPRESS	28-6N-7E		1834		101		888
				SPAR MTN							
	319	LADO PETROLEUM	SAILOR SPRINGS U	CYPRESS	13-5N-7E	110	2422	6.9	159	32	316
	387	LADO PETROLEUM	A. J. LEWIS	CYPRESS	9-5N-7E	+	+	10.8*	192*	70*	900*
	1117	LADO PETROLEUM	J. HARBE	CYPRESS	33-6N-7E	*	*	5.8*	190*		
	352	MAC OIL COMPANY	BIBLE WF UNIT	CYPRESS	9-4N-7E	91	1804	9.2	283	91	912
	391	MAC OIL COMPANY	CARTER	CYPRESS	24-5N-7E	45*	900*	3.2**	59**	45**	900**
	* 312	W. C. MCBRIDE	GOLDSBY-DICKEY	CYPRESS	34-4N-7E		622		31		142
	* 313	W. C. MCBRIDE	DUFF-KECK	CYPRESS	26, 35-4N-7E		1845		140		681
	* 314	W. C. MCBRIDE	BOTHWELL	CYPRESS	14-3N-7E		9A		5		
	* 344	W. C. MCBRIDE	DEHART	CYPRESS	9, 10-3N-7E	6*	989*	0.3*	81*	6*	703*
	364	W. C. MCBRIDE	GOLDSBY-WILSON	CYPRESS	34-4N-7E	250	2880	14.0	170	238	2024
				AUX VASES							
	375	W. C. MCBRIDE	PATTON-SMITH U	CYPRESS	11-3N-7E	49	238	3.3	27	48	179
	* 311	HCCOLM, KINCAID	SAILOR SPRINGS	CYPRESS	14, 15, 23-4N-7E		6979		1023		3203
	* 336	HCCOLM, KINCAID	NORTH HOOSIER UNIT	CYPRESS	10-4N-7E		2174		465		1221
	355	HCCOLM, KINCAID	BIBLE GROVE WF UNIT	CYPRESS	15, 22-5N-7E	275*	5174*	13.1*	1144*	275*	3374*
	* 382	HCCOLM, KINCAID	HARDIN	CYPRESS	10-5N-7E		300*		36*		300*
	383	HCCOLM, KINCAID	CHLODS-HARDIN-HARMON	CYPRESS	9, 10-5N-7E	170*	350*	16.1*	44*	170*	220*
	366	MCINNEY, FUNDERR	SPARLIN	CYPRESS	3-5N-7E	10	174	0.7	46	10	136
	* 340	MOBIL OIL CORP.	NORTH HOOSIER U	CYPRESS	15-4N-7E		160A		274		864
	321	BERNARD PODOLSKY	BUCK CREEK U	MCCLOSKY	8, 9, 16, 17-3N-7E	483	3757	15.3	208	552	2697
	* 333	BERNARD PODOLSKY	C. BOWERS	MCCLOSKY	16-3N-7E		231		44		182
	371	BERNARD PODOLSKY	E. FLORA	MCCLOSKY	9-3N-7E	96	920	2.0	15	75*	539*
	* 343	WAY-ORER OIL CO.	HASTINGS	CYPRESS	23-4N-7E		118*		7*		
	368	C. D. NEED	HCCOLLUM	CYPRESS	9, 16-4N-7E	130*	986*	7.5*	97*	130*	758*
	369	E. B. REYNOLDS EST.	STORCK	CYPRESS	5-5N-7E	88*	1023*	4.7*	82*	88*	1003*
	379	ROBISON OIL CO.	BATEMAN, CHOUSE, WORKMAN	CYPRESS	24, 25-5N-7E	25*	40*	10.0*	20*	25*	37*
	361	HURET ROSE	BATEMAN UNIT	CYPRESS	25, 26, 35-5N-7E	94	2201*	3.6	104*	94	720*
	350	SHAKESPEARE OIL	STANFORD UNIT	SPAR MTN	22, 27-3N-7E	1	443	0.7	28	1	188
	* 315	SHULMAN BROTHERS	COLCLASURE AND HARDY	CYPRESS	10-3N-7E		1177		28		496
	* 316	SHULMAN BROTHERS	NEFF	MCCLOSKY	16-3N-7E		99		3		
	* 325	SHULMAN BROTHERS	LEWIS-CYPRESS	CYPRESS	13-5N-7E		84		5		84
	1106	SOHIO PETROLEUM	ROSCILARE LIME UNIT	SPAR MTN	5-5N-7E,	204	7396	6.2	966	204	5096
					32-6N-7E						
	* 367	SO. TRIANGLE CO.	SAILOR SPRINGS	CYPRESS	11, 12, 13, 14-4N-7E		510		10		201
	1109	SUN OIL CO.	BIBLE GROVE U, SO. U.	CYPRESS	22, 27, 28, 34-6N-7E	300*	7325*	7.9*	1189*	240*	4550*
	360	TEXACO, INC.	NORTH BIBLE GROVE U	CYPRESS	3, 4, 5, 8, 9, 10-5N-7E,	2905	38401	59.0	3660	2380	23021
					32-6N-7E						
	365	TEXACO, INC.	W. G. LANDWEHR	CYPRESS	9-5N-7E	*	1988*	5.8	102	57	313
	392	TEXACO, INC.	HASCHER	CYPRESS	9-5N-7E	+	+	7.0	92	100*	1100*
	1115	R. O. WILSON II	KLUTHE-STORTZUM-LAKE	CYPRESS	15, 22-6N-7E	75*	480*	12.1*	225*	65*	371*
SALEM C, JEFFERSON, MARION											
	2618	T. L. CLARK	PHILIPS-WALNUT HILL U.	SPAR MTN	28, 33-1N-2E	10*	2747*	1.0*	227*	10*	730*
	2612	EGO OIL CO	SEBASTIAN	RENUIST	21-1N-2E	10*	319*	1.1*	33*	10*	319*
	2624	EGO OIL CO	LUTTWELL	SPAR MTN	15-1N-2E	10	163*	0.6	18*	10	88*
	2633	EGO OIL CO	HURGE	SPAR MTN	21-1N-2E	22	126**	3.5	14**	22	126**
	* 2006	EXXON	OIX W. AND PM.	RENUIST	3, 4, 9, 10, 15, 16-1S-2E	1034	30264	158.7	15143	891	21577
	2010	EXXON	SALEM CONS	AUX VASES	3, 4, 10-1S-2E	646	29133	21.4	1177	667	21173
	* 2604	TEXACO, INC.	ROSCILARE SAND UNIT	SPAR MTN	15-1N-2E		1913		96		207
	2605	TEXACO, INC.	SALEM UNIT	RENUIST	11, 2N-2E	3818	530050	188.9	42040	11616	374454
	2606	TEXACO, INC.	SALEM UNIT	DEVONIAN	11, 2N-2E	48364	355375	1359.4	12991	44025	311557
	2607	TEXACO, INC.	SALEM UNIT	MCCLOSKY	11, 2N-2E	13949	448570	272.3	23299	1473	322124
	2608	TEXACO, INC.	SALEM UNIT	AUX VASES	11, 2N-2E	30368	519752	397.8	33620	18806	313414
	2636	TEXACO, INC.	SALEM U	SALEM	11, 2N-2E	3062	20766	98.1	1033*	1209	9606*
	* 2637	TEXACO, INC.	SALEM U	TRENTON	1-2N-2E		806		4		15
SAMSVILLE N, EDWARDS											
	* 1010	ASHLAND O AND R	WEST SALEM	BETHFL	30-1N-14W		319		7		
SCHNELL, RICHLAND											
	3439	UNION OIL CALIF.	SCHNELL CONSOL	MCCLOSKY	7-2N-9E	1	857	1.0	40	1	326
SEMINARY, RICHLAND											
	* 3410	R. JOHNSON	SEMINARY	MCCLOSKY	17-2N-10E		889		25		290
SESSER C, FRANKLIN											
	1343	N. A. HALDRIDGE	GALLOWAY	AUX VASES	20-5S-2E	115*	615*	10.1*	127*	115*	615*
	1318	WM. BECKER	OLD REN COAL FLOOD	AUX VASES	13, 14, 23, 24-6S-1E	410*	7172*	19.7*	735*	410*	4655*
				CLEAR CREEK							
	1325	FARRAR OIL CO.	SESSER UNIT	AUX VASES	26, 35-5S-1E; 2-6S-1F	115*	2229*	21.2*	965*	85*	925*
	1330	FARRAR OIL CO.	CHRISTOPHER U	RENAULT	24, 25-6S-1E;	50*	505*	3.7*	73*	50*	189*
				AUX VASES	19, 30-6S-2E						
	* 1306	WILL I LEWIS EST	SESSER U	RENAULT	17, 19, 20-5S-2E		1574		173		75
	1339	JOE SIMPKINS OIL	SOUTH SESSER UNIT	AUX VASES	2-6S-1E	115*	422*	6.2*	20*	115*	307*
SHATTUC, CLINTON											
	410	T. M. CONREY, JR	SHATTUC WF	CYPRESS	27, 28-2N-1W	174*	1174*	9.6*	161*	174*	669*
				BENOIST							



Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77				Injection water		Remarks	
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow		Type: (F) = Fresh (B) = Brine (M) = Mixed
								Inj.	Prod.				
Project no.													
SAILOR SPRINGS C, CLAY, EFFNGHAM, JASPER CONTINUED													
389	2590	10.0				*	*	3+	30+	+		*EST.,+ADJ.TO 364&312 SINCE 55	
1114	2560	6.0				06-67	4*	7*	130*			*ESTIMATED	
* 310	2602	10.0				09-57	03-60	1	1	20		PRODUCED (H)	
* 339	2600	20.0	16.0	10	37.6	06-63	07-66	3	3	60		PRODUCED (H)	
1118	2510	10.0				01-66		*	5	40		*AFFECTED BY PROJ. 360	
328	2300	7.0	20.0		32.7	04-58		1	10	150		PRODUCED (R)	
	2600	7.0	19.0					1	7	100		*ESTIMATED SINCE 1971	
356	2440	20.0	20.0	70	38.0	01-66		12	13	430		PENN SAND (M)	
*1107	2860	5.0				11-62	06-69	3	5	80		LAKE, PROD (M)	
329	2560	8.0			36.0	11-56		3	4	100		PENN SD, PROD (B)	
	2800	15.0						3	2	80			
	2840	6.0						4	3	140			
1100	2850	5.0			37.0	07-54		1	1	40		CYP.,T.S.,PROD (R)	
	2870	4.0						3	3	180			
*1103	2856	9.0				06-55	07-65	1	1	20		CYPRESS, PROD (R)	
	2863	6.0						3	3	100			
319	2600	12.0			36.5	07-67		2	9	320		CYPRESS SD (H)	
387	2475	25.0				1-67*		+	6	70		PRODUCED (B)	
1117	2500	25.0				06-68		*	3	60		*EST., +ADJ. TO ACTIVE WF SINCE 67	
352	2600	20.0	18.0	24	37.7	09-63		3	9	160		*ADJ. TO ACTIVE WF +EST	
391	2540	9.0				7-64		1	2	30			
* 312	2580	15.0	15.4	17	38.0	09-55	10-64	1	2	50		*EST.,+INCL PRIM SINCE 64	
* 313	2600	12.0	19.0	60	38.0	07-53	09-66	2	5	120		PRODUCED (B)	
* 314	2650	10.0	19.0	20	36.0	08-56	12-59	1	1	20		PRODUCED (H)	
* 344	2610	15.0	17.5	50		11-64	12-77	1	3	60		PENN SD, PROD (R)	
364	2585	12.0				01-69		10	12	160		*ESTIMATED 1977 DATA	
	2830	6.0						3	3	60		PENN SD, PROD (B)	
375	2575	10.0			37.5	05-72		3	3	90		PENN SD, PROD (R)	
* 311	2600	15.1	17.3	48	37.0	07-54	01-69	11	18	350		CYP SD, PROD (B)	
* 336	2580	15.0	17.0	50	36.0	12-62	06-70	10	12	220		PENN, PROD (H)	
355	2500	18.0	18.0	80		12-65		7	13	200		PENN SD, PROD (R)	
* 382	2475	10.0				1-66*	8-75	*	1	10		*ESTIMATED SINCE 1972	
383	2580	18.0				07-75		1	3	50		*EST., WINDOW IN PROJ. 356	
366	2510	8.0				07-69		1	1	60		*ESTIMATED	
* 340	2600	12.0	18.7	40	37.0	08-62	12-68	10	5	140		PRODUCED (H)	
321	2980	7.8			37.7	12-70		3	13	340		PRODUCED (B)	
* 333	3000	6.0	10.0	500	36.0	09-61	04-66	1	3	40		PENN SD (R)	
371	2950	7.0			35.0	02-71		1	4	150		CYPRESS (R)	
* 343	2600	16.0	17.0	56	37.4	10-63	12-66	1	1	40		PRODUCED (B)	
368	2620	15.0				06-69		1	6	70		PURCHASED (M)	
369	2500	15.0				06-69		2	4	60		*ESTIMATED	
379	2575	13.0				09-75		1	3	40		PENN SD, PROD (R)	
361	2570	11.0	17.0	31		01-66		2	3	240		PRODUCED (B)	
350	2990	10.0				12-65		2	2	40		LAKE AND PRODUCED	
* 315	2620	15.0	16.4	16	36.0	07-57	04-65	1	1	80		PRODUCED (H)	
* 316	3000	5.0			36.0	01-57	12-59	2	1	80		PRODUCED (B)	
* 325	2510	8.0			36.0	01-66	09-67	1	1	30		TAR SPRINGS (R)	
1106	2800	10.0			38.5	06-61		6	9	550		PRODUCED (M)	
												GRAV, PROD (M)	
* 367	2620	12.0	17.2	75	36.0	09-70	12-72	5	6	120		PENN SD (R)	
1109	2520	7.0			38.0	01-65		12	11	385		SH SD, PROD (M)	
360	2475	30.0	16.3	67	37.0	07-66		29	28	1320		PENN SD (R)	
												*ESTIMATED 1977 DATA	
365	2450	10.0	16.0	113	37.0	01-69		1	2	80		PRODUCED (B)	
392	2480	24.0				1-67*		+	3	30		*INJ. SUSP. 10-76	
1115	2580	12.0	19.5	190	38.0	04-69		2	6	90		*EST.,+ADJ.TO 360 SINCE 66	
												*ESTIMATED SINCE 1976	
SALEM C, JEFFERSON, MARION													
2618	2102	7.0	12.0		39.2	06-63		4	11	260		PENN SD, PROD (R)	
2612	1927	8.0			34.6	01-59		1	2	10		PRODUCED (H)	
2624	2100	15.0				01-67		1	2	30		PRODUCED (H)	
2633	2110	8.0				01-71		1	4	40		PRODUCED (H)	
+2006	1950	19.0	16.7	130	38.0	01-48		4	30	2078		PENN SD, PROD (R)	
2010	2000	16.0	14.0	20	38.0	08-60		27	22	1090		PENN SD, PROD (R)	
+2604	2093	14.0	11.5	43	36.5	04-50	08-62	3	5	100		PRODUCED (B)	
2605	1770	28.0	17.9	150	37.0	10-50		31	56	8247		LAKE, PROD (M)	
2606	3400	19.0	16.8	300	36.5	10-50		57	72	5414		UPPER SD, PROD (B)	
2607	1950	20.0	15.8	700	37.0	04-51		82	67	7712		LAKE, PROD (M)	
2608	1825	26.0	16.3	28	37.0	10-50		120	82	4881		LAKE, PROD (M)	
2636	2175	25.0	10.5	35	37.5	01-71		14	12	840		PROD, FRESH (M)	
+2637	4520	99.0	7.2	27	40.7	09-67	01-74	3	2	160		PROD, FRESH (M)	
												*CORRECTED BY OPERATOR	
SAMSVILLE N, EDWARDS													
*1010	2930	5.0				09-54	02-59	1	1	20		PRODUCED (B)	
SCHNELL, RICHLAND													
3439	2988	15.0			39.5	08-68		1	1	103		PRODUCED (M)	
SEMINARY, RICHLAND													
*3410	3000	8.0			36.0	02-54	04-57	2	4	120		CYPRESS (B)	
SESSER C, FRANKLIN													
1343	2670	12.0				01-70		1	7	80		PRODUCED (H)	
1318	2600	18.0			40.0	07-64		8	18	410		PENN SD, PROD (R)	
	4375	20.0			40.0			1	2	60			
1325	2600	15.0	18.0	10	38.0	05-65		6	14	360		CYPRESS, PROD (R)	
1330	2570	10.0				10-69		1	5	60		*ESTIMATED 1977 DATA	
	2600	6.0						3	5	80		*ESTIMATED SINCE 1976	
*1306	2640	5.0			39.4	08-58	01-70	6	6	220		CITY WATER (F)	
1339	2610	15.0				10-74		2	6	140		LAKE, PROD (M)	
												PRODUCED (R)	
												*ESTIMATED	
SMATTUC, CLINTON													
410	1285	6.0			34.6	07-59		3	8	110		TAR SPH, PROD (R)	
	1436	9.0			35.0	01-64		2	2	40			
												*ESTIMATED	

TABLE 11. Waterflood operations

Field, County	General information				Production and injection statistics (M bbl)						
	Project no. * = ABD. + = P. M.	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
						Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
SHAWNEETOWN N, GALLATIN											
*1416 SUN OIL CO.	L. MILLER	AUX VASES	7-9S-10E			357		48		163	
SIGGINS, CLARK, CUMBERLAND											
* 216 ACME CASING	UNION GROUP	2ND SIGGINS	18-10N-11E			23839		2721		21092	
700 BELL BROTHERS	ELOOD 1	2ND SIGGINS	13-10N-10E		R2	1017		2.8	278	82	1031
* 701 COCHONOUR, CLARK	VEVAY PARK	2ND SIGGINS	25-10N-10E			255		2			103
702 MARATHON OIL CO.	SIGGINS	2ND SIGGINS	13,14-10N-10E, 7,11,12-10N-11E		1905	105255		76.8	13206	2373	22849*
* 215 OMER H. DOOLE	SIGGINS	SIGGINS	7-10N-14W 7-10N-11E			50*		9*			50*
707 CLIFEORO A. PERRY	REEOER	2ND SIGGINS	24-10N-10E		10*	102*		1.2*	12*	10*	102*
SORENTO C, BONO											
7 JACK COLE	YOUNG & VONBERG U.	PENN	32-6N-4W		9*	240*		0.6*	10*	9*	85*
* 5 JOE A. DULL	SORENTO SOUTH	LINGLE	29-6N-4W			88			4		57*
STAUNTON W, MACOUPIN											
2400 RAY E. HOWELL	DEMNE	PENN	16-7N-7W		*	16*		*	1*	*	2*
STEWARSON, SHELBY											
3800 W. L. BELOEN	CHAEFEE-HARPER-WABASH	AUX VASES	27-10N-5E		146	2497		14.2*	391**	146	2497
3801 DONALD W. GESELL	MORT MORAN	AUX VASES	27-10N-5E		94	2015*		2.8	155*	94	1505*
SPAR MTN											
STORMS C, WHITE											
*4431 ATLAS DRILLING	HS & GP HANNA	TAR SPRIN	28-5S-10E			1000*		58		1000*	
4204 C. E. BREHM	R-B U	WALTERSBURG	12,13-6S-9E		364	3914		18.5	500		
4438 C. E. BREHM	C.S.AUSTIN	WALTERSHURG	22-6S-9E		*	*		32.6*	269*	480*	5080*
4241 JACK BROOKOVER	W. S. HANNA	PENN	28-5S-10E		31	485		1.7	31	31	420
4263 JIM HALEY	STORMS POOL UNIT	WALTERSBURG	2,11-15,22-24-6S-9E		740*	128699		29.5*	3107	740*	78796
AUX VASES											
4457 JIM HALEY	ARMSTRONG&HALL-MYERS	WALTERSBURG	1-6S-9E		+	+		7.9*	179*	40*	1000*
*4271 MARIE PET. CORP.	STORMS	WALTERSHURG	22-6S-9E			90					
4451 MURVIN OIL CO.	EERGUSON	BTML	32-5S-10E		+	+		4.0*	102*	20*	800*
CLORE											
4450 O W AND F OIL CO	LAND	CLORE	32-5S-10E; 5-6S-10E		100*	890*		9.8*	120*	100*	800*
4248 DENNIS PAINE	ALDRIDGE	WALTERSBURG	12-6S-9E		200*	6406*		6.5*	319*		
AUX VASES											
4380 DENNIS PAINE	TRAINOR	TAR SPRINGS	23-6S-9E		+	680**		7.9*	92*	+	680**
4449 DENNIS PAINE	FECHTER-RICE	CLORE	22-5S-10E		10*	60*		0.5*	11*	10*	60*
PALESTINE											
*4296 BERNARD POOLSKY	MCQUEEN	DEGONIA	32-5S-10E			1873			210		721
CLORE											
4240 QUASAR, INC.	POMEROY	AUX VASES	28,33-5S-10E		15*	463*		1.1*	27*	15*	188*
4415 SO. TRIANGLE CO.	STORMS UNIT (WILSON)	WALTERSBURG	22-6S-9E		625*	5689*		33.0*	584*	585*	2369*
4234 SUN OIL CO.	S STORMS EXTENSION	WALTERSHURG	12,13-6S-9E		888*	10782		31.8*	655	991*	7895
4399 SUN OIL CO.	N STORMS EXT COOP	WALTERSBURG	1,12-6S-9E; 16-6S-10E		1224*	17978		34.7*	981	1370*	15670
TAR SPRINGS											
AUX VASES											
*4295 TAMARACK PET.	HANNA	CLORE	32-5S-10E			1754			322*		815*
*4327 TAMARACK PET.	CALVERT	CLORE	32-5S-10E			402			2		19
4366 TAMARACK PET.	HANNA "A"	BTML	29-5S-10E		40	830		1.7	75	45	659
*4372 TAMARACK PET.	HANNA	BTML	32-5S-10E			424			*		*
4285 TARTAN OIL CO.	EERGUSON-RUDDLP	PENN	22-5S-10E		15*	457*		0.7*	15*	15*	225*
STRINGTOWN, RICHLAND											
*3411 N. C. DAVIES	STRINGTOWN	STE GEN	31-5N-14W			257			19		289
*3412 HELMERICH, PAYNE	STRINGTOWN WF	STE GEN	31-5N-14W			171			5		57
*3413 SKELLY OIL CO.	PETER VON ALMEN	STF GEN	31-5N-14W			324			59		242
SUMPTER E, WHITE											
4381 DEE DRILLING	BONO-HENDERSON	OHAMA	20,29-4S-10E		30*	1167*		2.0*	60*	30*	652*
4420 DEE DRILLING	W CROSSVILLE S UNIT	OHAMA	20,29,30-4S-10E		280*	2950*		12.3*	152**	280*	1490*
*4408 EAGLE SUPPLY CO	CAMI	AUX VASES	12-5S-9E			787			292*		336*
SPAR MTN											
4231 T. W. GEORGE EST.	SUMPTER E	AUX VASES	29,31,32-4S-10E; 5,6-5S-10E		51	3981		7.0	315	31	1193
SPAR MTN											
4425 HERTZING PROD. CORP.	CHERRY SHOALS UNIT	CYPRESS	17,20,21-4S-10E		45*	950*		2.3*	48**	45*	660*
4424 SLASTER PRODUCING	W CROSSVILLE U	OHAMA	20,29-4S-10E		225*	3400*		10.1*	184**	225*	1955*
SUMPTER N, WHITE											
4221 SHAKESPEARE OIL	SUMPTER NORTH U	AUX VASES	20,29-4S-9E		164	2074		5.7	143	92	709
4423 WARRIOR OIL CO.	MORRILL	AUX VASES	21-4S-9E		50	152		7.9	85	50	152
SUMPTER S, WHITE											
4430 ERMERS PETR COOP	SOUTH SUMPTER	TAR SPRINGS	34,35-4S-9E; 12,3-5S-9E		62	418		20.8	119	70*	139*
4437 W. C. MCHRIE	JOSEPH JACOBS	TAR SPRINGS	34-4S-9E		23	281		3.3	16	27	151
*4345 SO. TRIANGLE CO.	SUMPTER SOUTH UNIT	AUX VASES	2,3-5S-9E			859			81		371
*4346 SO. TRIANGLE CO.	SUMPTER NORTH UNIT	AUX VASES	34,35-4S-9E			642			44		214
TAMAROA, PERRY											
3100 ERMERS PETR COOP	TAMAROA	CYPRESS	14,23-4S-1W		75*	2758*		3.4	117*	75*	2004*
TAMAROA S, PERRY											
3101 N. A. BALDRIDGE	BAGWELL	CYPRESS	28-4S-1W		55*	674*		2.4*	41*	55*	674*
THACKERAY, HAMILTON											
1551 MARATHON OIL CO.	THACKERAY 3-A	AUX VASES	10,11,15-5S-7E		277	12980		4.3	966	403	8610
1570 ROYALCO, INC.	W THACKERAY UNIT	AUX VASES	9,16-5S-7E		315*	2351*		14.0*	895*	315*	1639*
THOMPSONVILLE E, FRANKLIN											
*1302 C. E. BREHM	E THOMPSONVILLE	AUX VASES	12-7S-4E; 17-7S-5E			362			136		1417
THOMPSONVILLE N, FRANKLIN											
*1305 BARBARA BRAGASSA	THOMPSONVILLE U	AUX VASES	10,15-7S-4E			1032*			125*		80*
1331 OUNCAN LSE-ROY	N THOMPSONVILLE U	AUX VASES	10-7S-4E		54	785		14.7	97		
*1304 FAIRFIELD SALV.	THOMPSONVILLE U	AUX VASES	3,9,10-7S-4E			1786			381		360

## in Illinois, 1977-continued

Field, County	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source:	Type:	
								Inj.	Prod.		SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	(F) = Fresh (B) = Brine (M) = Mixed	
Project no.													
SHAWNEETOWN N, GALLATIN													
*1416	2750	15.0			37.0	11-59	09-66	2	1	30	PENN SD (B)		
SIGGINS, CLARK, CUMBERLAND													
* 216	404	31.0	18.0	51	36.0	12-46	01-72	92	84	459	GRAV, PROD (M)		
700	320	18.9	18.9	73	35.9	09-50		9	15	80	SURFACE (M)		
* 701	600	16.0	20.3	349	30.1	12-50	12-56	2	4	14	LAKE, PROD (M)		
702	400	32.0	17.5	56	36.4	06-42		454	471	2019	GRAV, PROD (F,B*)		*SINCE 1970
* 215	450	36.0	21.5	40	33.8	04-52	01-74	30	27	135	RRODUCED (B)		*ESTIMATED SINCE 1965
707	520	30.0				09-68		1	4	90	WELL, PROD (M)		*ESTIMATED
SORENTO C, BONO													
7	592	14.0	17.6	175	33.0	11-69		4	2	70	PENN SAND (B)		*ESTIMATED SINCE 1972
* 5	1850	4.5	12.2	50	38.0	10-62	10-64	1	3	50	PENN SD, PROD (B)		*1964 DATA ESTIMATED
STAUNTON W, MACOUPIN													
2400	490	10.0			32.0	05-60		2	7	40	PRODUCED (B)		*NO DATA SINCE 1962
STEWARTSON, SHELBY													
3800	1750	20.0				09-59		1	17	160	PRODUCED (B)		*EST +INCL PRIM PROD
3801	1950	9.0				06-62		3	4	70	PRODUCED (B)		*ESTIMATED
	2035	10.0						2	2	40			
STORMS C, WHITE													
*4431	2350	15.0				06-58	12-71	2	8	100	PRODUCED (B)		*ESTIMATED
4204	2250	20.0				03-66		5	5	100	PENN SD, PROD (B)		
4438	2260	14.0				10-67		*	4	40			*ADJ TO ACTIVE WF, *ESTIMATED
4241	1319	9.0			28.0	04-63		1	1	20	TAR SPR, PROD (B)		
4263	2240	10.0	19.0	250	34.0	03-56		73	41	1100	RIVER, PROD (M)		*ESTIMATED
	2980	15.0				01-64		17	18	350			
4457	2410					1-66+		+	2	30	+		*EST, +ADJ, TO 4399 SINCE 66
*4271	2240	15.0				07-51	06-53	1	2	40	RENN SD, PROD (B)		
4451	1850	4.0						+	3	30	+		*EST, +ADJ, TO PROJS, 4372&4395
	2100	11.0						+	3	30			
4450	2100	15.0				6-67		1	3	50	PRODUCED (B)		*EST, +INCL PRIM SINCE 1958
4248	2275	15.0	18.4	173		06-64		3	3	75	PURCHASED (M)		*ESTIMATED SINCE 1973
	2990	16.0	17.1	47				3	3	60			
4380	2250	12.0				03-69		1	7	90	PRODUCED (B)		*DATA EST; +INJECTION SUSP 1975
4449	2085	6.0				6-70		1	3	40	PRODUCED (B)		*ESTIMATED
	2155	6.0						1	4	50			
*4296	2550	6.0				06-60	01-66	5	5	100	SH SD, PROD (M)		
	2580	12.0						6	7	150			
4240	2750	12.0	16.5	54	36.0	06-66		4	2	80	SH SD, PROD (M)		*ESTIMATED
4415	2250	22.0	19.5	225	34.8	07-67		5	12	200	PENN SD, PROD (M)		*ESTIMATED SINCE 1973
4234	2250	19.0				07-66		9	11	280	RIVER GRAV, PROD (M)		*ESTIMATED FROM FIELD TOTAL
4399	2290	20.0	20.0	200	38.0	06-64		14	15	300	RENN SD, PROD (M)		*ESTIMATED FROM FIELD TOTAL
	2390	10.0	18.5	100				2	2	40			
	2980	15.0	18.0	30				13	14	280			
*4295	2100	10.0	18.0	150	34.8	08-60	01-71	3	3	120	PENN SD, RROD (B)		*INCL 4372
*4327	2100	10.0	18.0	150		08-60	12-64	1	1	20	SH SD, RROD (M)		
4366	1830	7.0	18.6	170		02-68		3	3	70	PRODUCED (B)		
*4372	1826	14.0	20.1	289	34.8	12-62	09-71	3	1	40	SH SD, PRROD (M)		*INCL WITH 4295
4285	1480	27.0	20.0	200	34.0	12-68		3	1	40	SH SD (F)		*ESTIMATED
STRINGTOWN, RICHLAND													
*3411	3000	10.0	18.0			12-53	09-58	2	3	80	TAR SPRINGS (B)		
*3412	3026	7.0			38.0	10-54	12-57	2	2	70	CYPRESS, PROD (B)		
*3413	3002	12.0			36.0	12-53	12-63	1	2	80	PENN SD, PROD (B)		
SUMPTER E, WHITE													
4381	3140	18.0				02-66		3	7	70	PENN SD, PRROD (B)		*ESTIMATED
4420	3150	11.0				04-70		3	12	220	GRAVEL & PROD (M)		*EST +INCL PRIM
*4408	3090	15.0				07-65	01-76	3	3	50	RIVER GRAV, RROD (M)		*INJ TERMINATED 1974; *ESTIMATED
	3165	8.0					12-66	1	1	20			
4231	3020	20.0	19.7	57	37.0	10-65		4	12	395	RIVER GRAV, PROD (M)		
	3100	10.0	10.5	15	37.0			4	7	140			
4425	2830	25.0				04-67		2	10	150	SH SD, RROD (M)		*EST +INCL PRIM
4424	3170	10.0				06-67		3	8	140	PENN SD, PRRO (B)		*EST +INCL PRIM PROD
SUMPTER N, WHITE													
4221	3170	10.3				06-66		5	7	180	SH SD, PROD (M)		
4423	3175	20.0				11-58		1	3	40	PRODUCED (B)		
SUMPTER S, WHITE													
4430	2550	6.5	15.4	55	34.7	11-72		3	4	80	ONE WATER SUP WELL (F)		*ESTIMATED
4437	2550	10.0				3-74		2	1	20	PRODUCED (B)		
*4345	3240	10.7	19.0	55	36.2	09-63	07-70	5	4	100	SH SD, PROD (M)		
*4346	3240	11.7	19.0	55	36.2	10-63	07-70	4	3	70	PENN SD (F)		
TAMAROA, PERRY													
3100	1140	10.0	24.3	349	31.5	12-61		3	4	180	PDND, PRON (M)		*ESTIMATED SINCE 1973
TAMAROA S, PERRY													
3101	1125	12.0			27.6	01-62		1	4	60	PRODUCED (B)		*ESTIMATED
THACKERAY, HAMILTON													
1551	3368	15.0	24.0	270		04-64		9	6	420	CYP, RROD (B)		
1570	3350	16.0	20.3	174	39.2	12-69		3	6	120	CYPRESS (B)		*ESTIMATED SINCE 1976
THOMPSONVILLE E, FRANKLIN													
*1302	3200	18.0	21.1	98	38.0	07-54	01-71	3	3	60	PRODUCED (B)		
THOMPSONVILLE N, FRANKLIN													
*1305	3120	16.0	19.5	50	38.6	03-54	01-64	7	3	176	LAKE, PROD (M)		*NO DATA SINCE 1962
1331	3100	15.0				11-68		2	6	120	PENN SD, PROD (B)		
*1304	3020	15.0	21.0	115	37.0	01-56	12-64	7	7	236	LAKE, PROD (M)		



TABLE 11. Waterflood operations

Field, County Project no. * = ABD. + = P. M.	General information				Production and injection statistics (M bbl)					
	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
					Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
THOMPSONVILLE N, FRANKLIN CONTINUED										
*1303 MUMBLE O AND R	N THOMPSONVILLE U	AUX VASES	3,9,10-7S-4E			2211		365		600
TONTI, MARION 2634 LEIDERMAN ESTATE 2621 TEXACO, INC.	TONTI FLOOD PROJ TONTI UNIT	MCCLOSKEY BENOIST AUX VASES SPAR HTN MCCLOSKEY SPAR HTN BENOIST MCCLOSKEY	33-3N-2E 4-2N-2E		150* 1669	1710* 13569	9.9* 56.2	204* 590	150* 2265	2922* 21008
*2622 TEXACO, INC. 2609 SAMUEL C. WILSON	H. MCMACKIN BRANCH		34-3N-2E 4-2N-2E		165	109 3306*	3.9	1 202**	165	109 3137*
TRUMBULL C, WHITE 4362 ABSMER OIL CO 4297 AUTUMN OIL CO 4301 AUTUMN OIL CO 4367 COY OIL CO	TRUMBULL R. SIMMONS SEVEN MILE FLATS TRUMBULL U	CYPRESS CYPRESS OHARA AUX VASES OHARA	24-5S-8E, 18-5S-9E 25,26-5S-8E 23,24-5S-8E 13,14,23-5S-8E		20* 135* 27* 595*	3418* 776* 760* 4197*	1.4* 8.2* 1.5* 39.2*	273* 61* 47* 469*	20* 135* 27* 595*	376* 745* 579* 1987*
4429 DEE DRILLING	460-SOUTH	AUX VASES MCCLOSKEY	14-5S-8E		+	+	2.6**	39**	88**	598**
4336 FEAR AND DUNCAN	MOORE-NIBLING UNIT	MCCLOSKEY	7-5S-9E		88* *	598* *	0.9+	33+	12+	412+
TRUMBULL N, WHITE *4406 SHULMAN BROTHERS	STOCKE	AUX VASES MCCLOSKEY	24-4S-8E			36		1		5
VALIER, FRANKLIN 1324 WAYNE HAMMONDS	RHEN-REA	AUX VASES	8-6S-2E		48*	297*	2.6*	56**	48*	297*
WALPOLE, HAMILTON 1532 HERMAN GRAHAM *1518 TEXACO, INC. *1546 TEXACO, INC. 1573 TEXACO, INC.	WALPOLE WEST U WALPOLE UNIT WALPOLE EAST UNIT WALPOLE STE. GEN UNIT	AUX VASES AUX VASES AUX VASES SPAR HTN MCCLOSKEY AUX VASES	28,33-6S-6E 22,24,27,34,35-6S-6E 26,35-6S-6E 26,27-6S-6E		41* 21248 1275 326	2172* 21248 1275 1411	1.9* 2342 170 16.1	294* 2342 170 169	41* 11723 588 186	1270* 11723 588 734
*1517 UNIVERSAL OPRTNG	WALPOLE UNIT	AUX VASES	3-7S-6E			1486		79		977*
WAMAC, CLINTON, MARION, WASHINGTON *2610 MINERAL REC. INC *2611 DEWEY STINSON	WAMAC WATERFLOOD WAMAC UNIT	PETRO PETRO	19,30-1N-1E 19,30-1N-1E			4 531		7 35		11 221
WAMAC W, CLINTON 4021 G. JACKSON 414 JET OIL CO. 418 JET OIL CO.	JACKSON, MARION-HUGHES WAMAC W. BENOIST U WAMAC W CYPRESS U	CYPRESS BENOIST CYPRESS	29-1N-1W 22-1N-1W 20,21-1N-1W		79* 325 50	1619* 6101 533	3.5** 8.0* 14.0	83** 537** 257	79* 262 12	1619* 444 167*
WEST FRANKFORT C, FRANKLIN *1307 CONYERS OIL WELL	HORN-DIMOND 'A'	OHARA MCCLOSKEY	24,25-7S-2E			613*		100*		467*
*1301 FARRAR OIL CO. *1308 FARRAR OIL CO. 1313 KILLION MCCLEM. *1322 KILLION MCCLEM. 1333 KILLION MCCLEM.	W FRANKFORT U ORIENT U TEW-SINKS BONER-MERRIHAN II SW FRANKFORT U	TAR SPRINGS TAR SPRINGS AUX VASES AUX VASES TAR SPRINGS	18,19-7S-3E 12-7S-2E 19,20,29-7S-3E 31-7S-3E 24,25-7S-2E			4792 476 211 2054 287 33		561 29 344* 60 21		3021 444 692 49 21
1342 KILLION MCCLEM. 1336 RK PET. CORP. *1340 S AND M OIL CO. *1315 TEXAS AMERICAN	RANSON W FRANKFORT U GARDNER-DIAMOND POND CREEK	AUX VASES AUX VASES OHARA TAR SPRINGS	29-7S-3E 1-7S-2E, 16-7S-3E 13,24-7S-2E 25-7S-2E		33 41 1031	36 373 350* 1031	21.8 7.2 19*	23 87 151	10* 41	11* 281 350* 336
WEST SEMINARY, CLAY * 346 SHULMAN BROTHERS	WEST SEMINARY UNIT	AUX VASES MCCLOSKEY	5,6,8-2N-7E			4701		378		2636
WESTFIELD, CLARK, COLES 221 ASHLEY OIL CO. * 231 ASHLEY OIL CO. * 200 FOREST OIL CO. * 222 FOREST OIL CO. * 502 GEN. OPERATIONS	WESTFIELD TRENTON U SHERWOOD STEAM FLOOD WESTFIELD POOL PARKER JOHNSON	TRENTON CASEY GAS WESTFIFLO CASEY GAS CASEY GAS	5,6,7,8,17,18-11N-14W 32-11N-14W 17-11N-14W 30-11N-14W 7,18,19-11N-11E 18-11N-14W 4-11N-14W		515* 1* 3956 663 205	657* 1* 3956 663 205	12.2* 1 15 34 13	27* 1 15 34 13	80* 6 75	101* 6 75
224 SNAW LSE DEV	APEX	PENN			*	24*	*	1*		
WESTFIELD E, CLARK 206 JUDITH NEUMAN	MORRILL	PENNSYLVANIA	12-11N-14W		45*	488*	2.9*	51*	45*	331*
WHITTINGTON, FRANKLIN 1329 T. W. GEORGE EST.	WILCOX	HARDINSBURG CYPRESS CYPRESS HARDINSBURG CYPRESS OHARA MCCLOSKEY HARDINSBURG CYPRESS	20,29-5S-3E 19-5S-3E 29,30-5S-3E 21,28,29,32,33-5S-3E 20-5S-3E		2 167* 255* 264	170 916* 1330* 1455	0.3 10.6* 16.7* 11.9	23 88* 117* 121	2 167* 255* 179	80 967* 1155* 866
1334 WILL I LEWIS EST	WHITTINGTON				238	1499	8.1	97	143	626
WHITTINGTON W, FRANKLIN *1344 JOHN C. BOWERS *1312 KEWANEE OIL CO.	PLAINS PL. PLAINS	RENAULT RENAULT	12-5S-2E 1,2,11,12,14-5S-2E			760* 3375		137* 363		760* 1137
WILBERTON, FAYETTE 1246 W. L. BELDEN	ST PETER AREA	CARPER	11,12,13-5N-2E 7,17,18,19-5N-3E		285	12021	32.8**	902**	285*	9310*



in Illinois, 1977-continued

Field, County  Project no.	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks	
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed		
								Inj.	Prod.					
THOMPSONVILLE N, FRANKLIN CONTINUED														
*1303	3075	25.0	22.0	170	37.5	10-55	04-62	5	5	100	CYP, PROD (R)			
TONTI, MARION														
2634	2152	10.0			36.0	02-67		1	4	50	PRODUCED (B)		*ESTIMATED SINCE 1975	
2621	1940	18.0				05-75		2	3	80				
	2010	20.0			36.0	05-75		2	4	120				
	2110	8.0	17.3	169		02-64		3	3	140				
	2140	18.0	14.1	196		02-64		6	3	140				
	2108	8.0	17.3	169	36.0	03-64	12-65	1	2	30	PRODUCED (B)			
	2609	1950	6.0			36.2	04-59		2	3	60	PRODUCED (B)		*ESTJ *INCL PRIM PROD SINCE 4-59
	2122	7.0						1	2	40				
TRUMBULL C, WHITE														
4362	2848	12.0	16.0	40	35.0	11-62		6	4	180	SH SO (F)		*ESTIMATED SINCE 1972	
4297	2800	8.0				06-65		1	2	30	PRODUCED (B)		*ESTIMATED	
4301	3180	8.0				01-66		2	7	90	PRODUCED (B)		*ESTIMATED	
4367	3150	11.0	18.0		38.4	01-71		6	19	300	SAND (M)		*ESTIMATED SINCE 1973	
	3200	16.0						1	5	60				
4429	3120	15.0				10-69		*	3	50			*ESTIMATED *ADJ TO A.V.WF	
	3230	8.0						1	2	30			*INCL BOTH PAYS	
4336	3283	5.0	12.8	136	37.0	11-61		*	1	40	TAR SPR, PROD (B)		*O.F., UNKNOWN *ESTIMATED	
TRUMBULL N, WHITE														
*4406	3320	10.0			36.0	09-65	09-66	1	1	20	CYPRESS (B)			
	3468	7.0						1	1	40				
VALIER, FRANKLIN														
1324	2670	8.0			39.2	11-64		1	1	70	PRODUCED (R)		*ESTIMATEDJ *INCL PRIM PROD	
WALPOLE, HAMILTON														
1532	3200	15.0	22.1	190	39.0	07-62		4	4	160	PENN SO, PROD (R)		*ESTIMATED SINCE 1971	
*1518	3100	15.4	18.3	106	36.2	12-60	04-69	14	19	1440	PENN SO, PROD (R)			
*1546	3100	17.0	15.4	18	36.7	09-63	01-69	4	3	160	PENN SO, PROD (B)			
1573	3200	12.0	12.0		37.6	03-73		4	3	280	PROD SUPPLY (B)			
	3250	18.0	10.0					4	3					
*1517	3180	18.0	20.3	134	37.4	01-60	09-66	4	3	80	PENN SO, PROD (R)		*EST FOR 1964-1966	
WAMAC, CLINTON, MARION, WASHINGTON														
*2610	765	18.0	21.3	220	35.0	05-54	10-65	6	15	120	CITY WATER (F)			
*2611	750	20.0	20.3	183	30.0	07-57	12-60	6	13	50	CITY WATER (F)			
WAMAC W, CLINTON														
4021	1300	7.5				11-66		1	5	70	PRODUCED (R)		*EST, *INCL, PRIM PROD SINCE 1966	
414	1450	18.6				11-62		5	9	140	LAKE, PROD (M)		*INCL PRIM PROD SINCE 11-62 *ES	
418	1290	8.8				10-65		3	6	90	PENN SO, PROD (B)		*ESTIMATED	
WEST FRANKFORT C, FRANKLIN														
*1307	2760	10.0	15.0	205	38.0	07-59	12-72	1	2	60	PRODUCED (B)		*ESTIMATED SINCE 1967	
	2845	7.0						1	2	60				
*1301	2050	31.3	17.1	155	40.3	11-57	07-65	6	6	141	CYPRESS, PROD (R)			
*1308	2050	12.1			40.1	09-59	12-63	4	3	70	CYPRESS, PROD (R)			
1313	2730	12.0			38.0	09-62		2	1	120	LAKE, PROD (M)		*INACTIVE: SWD SINCE 1973	
*1322	2750	12.0			38.0	08-65	12-73	2	2	70	PENN SO, PROD (B)			
1333	2050	40.0			38.0	02-71		3	23	60	LAKE & PROD (M)			
	1342	2735	15.0		38.0	12-76		1	6	60	LAKE (F)		*ESTIMATED	
1336	2720	8.0				10-71		1	3	40	LAKE (F)			
*1340	2750	11.0				11-66	10-72	4	10	210	PRODUCED (R)		*ESTIMATED-NO DATA RECEIVED	
*1315	2060	10.0	17.1		38.0	08-62	12-67	2	3	70	PRODUCED (B)			
WEST SEMINARY, CLAY														
* 346	2970	9.0	19.0		37.2	03-64	12-68	15	8	290	PENN SO, PROD (R)			
	3080	9.0						4	5	180				
WESTFIELD, CLARK, COLES														
221	2350	60.0	4.0		39.0	01-75		13	37	1000			*ESTIMATED 1977 DATA	
* 231	250	20.0	20.0	250	25.0	02-64	04-64	2	1	10	CITY WATER (F)		*ONE TON OF STEAM, STEAM SOAK	
* 200	290	15.0	19.0	17	34.0	01-66	03-70	20	9	30	GRAVEL BED (F)			
* 222	270	25.0	17.9	153	28.1	06-50	04-61	9	12	20	GRAVEL BED (F)			
* 502	320	35.0	21.5	86	29.0	06-51	12-62	30	14	60	LAKE, PROD (M)			
	224	340	60.0		34.8	03-67		6	5	40	CARPER, WELL (M)		*NO DATA SINCE 1968	
WESTFIELD E, CLARK														
206	370	20.0	22.0	400	34.9	01-66		4	10	60	PRODUCED (M)		*ESTIMATED	
WHITTINGTON, FRANKLIN														
1329	2300	10.0				09-67	12-68	1	1	40	LAKE, PROD (M)			
	2530	10.0				07-64		3	3	50				
1338	2530	10.0				12-71		2	4	60	PRODUCED (B)		*ESTIMATED	
1341	2300	10.0				07-72		4	12	180	PRODUCED (B)		*ESTIMATED	
1337	2500	8.0				10-71		1	5	60	LAKE, PROD (M)			
	2810	8.0						2	9	160				
	2900	5.0						2	9	160				
1334	2300	10.0				08-71		3	6	90	PRODUCED (B)			
	2500	8.0						3	6	90				
WHITTINGTON W, FRANKLIN														
*1344	2740	11.0				03-62	07-71	1	5	70	PRODUCED (B)		*ESTIMATED	
*1312	2675	10.0	13.0	13	38.0	02-61	05-67	7	8	270	PENN SO, PROD (B)			
WILBERTON, FAYETTE														
1246	3250	25.0				10-65		18	33	1000	BENNIST, PROD (B)		*EST *INCL PRIM PROD	

TABLE 11. Waterflood operations

Field, County  Project no. * = ABD. + = P. M.	General information				Production and injection statistics (M bbl)					
	Operator	Project U = Unit	Pay name	Location S - T - R	Water injection		Oil production		Water production	
					Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77	Total 1977	Cum. 12-31-77
WILLIAMS C, JEFFERSON										
2019 N. A. BALORIOGE	WILLIAMS SOUTH UNIT	AUX VASES	10,11-3S-2E		38*	1913*	1.4*	523**	38*	1131*
2028 WALTER DUNCAN	HOOGE	BENOIST	2-3S-2E		20*	450*	1.6*	28*	20*	450*
2033 PEP DRILLING CO.	LEFFLER	AUX VASES								
2032 BERNARD PODOLSKY	MCLAUGHLIN	AUX VASES	35-2S-2E/2-3S-2E		45*	1200*	5.0**	139**	45*	1200*
		BENOIST			10*	300*	1.7**	26**	10*	300*
		AUX VASES								
WOBURN C, BONO										
* 4 E. E. JENNEMAN	SPINDLER LSE	BENOIST	10-6N-2W			194		11		194
3 TRI STAR PROD CO	BLANKENSHIP AREA	DEVONIAN	34-7N-2W		40*	238*	2.5*	39*	40*	430*
WOODLAWN, JEFFERSON										
2005 W. C. MCBRIDE	HOPPA	CYPRESS	2-3S-1E		306	2242	9.7	176	306	1897
2024 MOBIL OIL CORP.	KAMINSKI ESTATE	BENOIST	2-3S-1E		150	1395	12.0	334	156	1519
*2023 TEXACO, INC.	WALKER 7	CYPRESS	2-3S-1E			255		5		177
		BENOIST								
2034 CHARLES P. WOOD	BURKHARDT	BENOIST	35-2S-1E		10*	1000*	0.3**	277**	10*	1000*
YORK, CLARK, CUMBERLAND										
* 706 C. KEYSER	CUMBERLAND UNIT	ISABEL	1-9N-10E			37				3
* 703 TRANS-SOUTHERN	YORK	ISABEL	6-9N-11E			604		20		290
ZEIGLER, FRANKLIN										
1316 V. R. GALLAGHER	BENO LEASE	AUX VASES	20-7S-2E		40*	274*	10.7*	247**	35*	69*
1320 V. R. GALLAGHER	PLUMFIELD U	AUX VASES	13,24,25-7S-1E/		195	3977	11.2	1888*	185	1838*
			18-7S-2E							
ZENITH E, WAYNE										
*4090 NAPCO	DURKEE	SPAR MTN	4-1N-6E			800*		160**		800*
ZENITH N, WAYNE										
*4150 T. W. GEORGE EST.	ZENITH N MCGREW	SPAR MTN	21-2N-6E			112		9		130
*4137 MOBIL OIL CORP.	ZENITH N FIELD U	SPAR MTN	21-2N-6E			501		58		206

## in Illinois, 1977-continued

in Illinois, 1977--continued

Field, County Project no.	Reservoir statistics (avg. value)					Development as of 12-31-77					Injection water		Remarks
	Depth (ft)	Net pay thick- ness (ft)	Poros- ity (%)	Perme- ability (md)	Oil grav- ity (°API)	Date first inj.	Date abd.	No. of wells		Acres under inj.	Source: SD = Sand GRAV = Gravel PROD = Produced SH = Shallow	Type: (F) = Fresh (B) = Brine (M) = Mixed	
WILLIAMS C, JEFFERSON													
2019	2555	11.0	17.6	50	37.0	10-64		2	3	119	PENN SD, PROD (B)		*PARTIAL WF SINCE 1-53 DATA SINCE 10-64; +ESTIMATED
2028	2500	7.0				06-67		1	1	20	PRODUCED (B)		*ESTIMATED
	2550	10.0						1	1	20			
2033	2580	20.0				5-60		1	4	40	PRODUCED (B)		*EST.+INCL.PRIM.SINCE 1960
2032	2525	10.0				7-66		1	1	20			*EST.+INCL.PRIM.SINCE 66
	2596	10.0						1	4	50			
WOBURN C, BONO													
* 4	1006	14.0				09-51	08-56	1	4	30	PRODUCED (B)		
3	2260	20.0		35.5		11-67		1	2	40	PRODUCED (B)		*TEMP ABD 1972-75; +EST SINCE 76
WOODLAWN, JEFFERSON													
2005	1760	10.0				09-68		2	5	20	PRODUCED (B)		
2024	1950	17.0				01-65		1	3	40	PRODUCED (B)		
*2023	1790	10.0	14.0	225	35.9	03-64	12-65	1	2	40	PRODUCED (B)		*DISC AS WF, SWD ONLY
	1950	27.0						1	2	40			
2034	1965	22.0				11-52		2	5	70	PRODUCED (B)		*EST +INCL PRIM.SINCE 1952
YORK, CLARK, CUMBERLAND													
* 706	556	11.0	17.8	80	33.8	06-61	12-63	1	2	30	PENN SD (B)		
* 703	590	10.0	21.9	231	30.3	10-50	12-58	3	7	15	PRODUCED (B)		
ZEIGLER, FRANKLIN													
1316	2620	12.0	21.5	75	38.9	10-68		1	2	40	PENN SAND, PROD. (B)		*EST.+INCL PRIM.SINCE 10-68
1320	2650	15.0	21.5	75	38.9	02-65		6	16	380	PENN SD, PROD (B)		*SINCE POOL DISCOVERY 7-12-63 +ESTIMATED SINCE 1976
ZENITH E, WAYNE													
*4090	3180	8.0				02-67	12-72	2	10	220	PRODUCED (B)		*EST. +INCL PRIM 1966-72
ZENITH N, WAYNE													
*4150	3100	15.0	14.0		38.0	08-68	12-70	2	5	90	PENN SD (B)		
*4137	3100	12.9	15.3		38.0	03-59	02-68	2	4	140	CYP, PROD (B)		

PRINT REPEATED BY OPERATOR

TABLE 12. Illinois waterfloods for 1977 by counties

County	Number of active projects	Number of abandoned projects	Wells		Acres in waterflood projects*		Water injection (M bbl)		Oil production (M bbl)		Water production+ (M bbl)	
			Water input	Producers	Subject to injection	Total productive	Total 1977**	Cumulative 12-31-77**	Total 1977**	Cumulative 12-31-77**	Total 1977**	Cumulative 12-31-77**
Bond	4	3	19	27	360	570	89	2,413	5.0	199	89	1,480
Christian	8	0	49	101	2,640	4,700	4,263	46,291	167.5	5,301	2,345	21,863
Clark	8	20	593	583	4,999	12,577	1,041	200,059	53.5	9,470	626	80,885
Clay	51	40	494	763	21,468	23,268	10,403	261,610	543.1	27,123	9,525	163,406
Clinton	15‡	6	295	370	7,284	7,550	4,172	84,289	190.2	17,235	3,513	148,620
Coles	11	15	179	237	4,855	5,045	1,350	74,384	55.6	5,946	1,350	37,975
Crawford	44	48	1,640	1,945	23,844	29,518	20,918	995,109	699.6	56,339	18,817	529,281
Cumberland	5	3	474	510	2,448	2,479	2,107	109,644	27.3	13,823	2,545	25,174
Douglas	0	3	34	56	1,220	1,310	0	12,532	0.0	1,631	0	1,977
Edgar	7	1	24	62	780	760	403	16,071	59.8	1,467	403	16,071
Edwards	25‡	16	154	291	6,816	7,490	3,966	115,960	228.9	14,105	3,200	69,786
Effingham	18	4	108	209	4,525	4,923	3,997	68,993	236.6	7,699	2,783	43,725
Fayette	47	8++	1,611	1,840	39,978	40,819	45,312	1,433,801	1,841.1	186,260	44,248	971,958
Franklin	26	18	267	375	9,763	10,654	3,673	286,085	255.9	31,155	3,458	196,375
Gallatin	30	29	423	580	11,368	12,576	3,554	150,289	257.3	21,746	2,751	61,160
Hamilton	29	48	658	824	27,326	27,961	11,432	479,024	363.5	37,139	12,878	299,634
Jasper	16	15	154	312	10,827	11,480	4,171	99,684	291.2	7,824	3,473	48,769
Jefferson	24‡	13	140	262	10,140	10,493	5,297	205,664	337.2	26,614	4,788	141,956
Lawrence	66	27	2,496	2,839	29,488	31,797	43,994	957,813	2,657.2	101,937	39,489	670,608
Macon	0	1	1	2	80	80	0	6	0.0	0	0	4
Macoupin	1	0	2	7	40	40	0	16	0.0	1	0	2
Madison	7	3	42	71	1,722	2,544	1,214	17,401	43.4	1,113	1,056	11,554
Marion	29	11	503	601	32,897	41,097	104,147	2,032,823	2,524.7	128,265	93,003	1,457,362
Montgomery	0	1	2	2	20	40	0	38	0.0	6	0	15
Perry	2	0	4	8	240	320	130	3,432	5.8	158	130	2,678
Richland	24	25	226	400	16,740	16,810	8,849	263,251	282.4	16,339	8,245	209,122
Saline	16	11	103	191	4,200	4,740	3,145	84,517	140.0	7,717	2,324	34,950
Shelby	3	1	10	30	630	660	255	5,033	17.8	885	255	4,533
Wabash	83	70	784	1,104	21,598	23,837	10,356	367,654	565.2	41,560	8,220	188,456
Washington	25	2	82	235	4,179	4,226	4,600	93,315	266.2	11,210	4,198	86,164
Wayne	88	62	997	1,287	57,848	62,381	22,382	689,509	934.3	60,178	18,000	361,343
White	148	107	1,980	2,530	54,964	60,439	39,966	944,610	1,953.9	97,201	26,742	505,696
Williamson	5	0	11	32	530	680	755	4,149	157.0	887	363	886
TOTAL	865	611	14,559	18,686	415,817	463,864	365,941	10,105,469	15,221.2	937,646	318,817	6,393,468

\*Acreage data are incomplete in a few counties.

\*\*Projects not reporting in 1977 are included as of last reporting date.

‡Not all projects reported produced water.

‡Includes 1 active pressure maintenance project.

++Includes 1 abandoned pressure maintenance project.



TABLE 13. Illinois oil fields having active waterfloods during 1977

Field	Number of active projects	Number of abandoned projects	Wells		Acres in waterflood projects*		Water injection (M bbl)		Oil production (M bbl)		Water production (M bbl)	
			Water input	Pro-ducers	Subject to injection	Total in production	Total 1977**	Cumulative 12-31-77**	Total 1977**	Cumulative 12-31-77**	Total 1977**	Cumulative 12-31-77**
Aden C	2	2	41	37	3,380	3,940	723	49,257	21.4	3,301	723	33,479
Akin	3	2	11	29	510	510	14	3,523	4.4	502	14	747
Albion C	20	10	119	219	4,825	5,389	3,554	111,062	153.7	12,993	2,727	65,103
Albion East	1	0	6	18	420	420	156	870	48.9	250	156	830
Allendale	17	21	139	192	2,893	3,333	1,278	91,539	61.7	7,324	866	33,419
Ashley	1	0	4	14	180	180	145	3,815	7.7	248	145	3,815
Ashley E	1	0	2	4	60	60	70	845	3.1	53	70	845
Assumption C	5	0	27	49	1,670	1,930	1,488	39,537	52.6	4,917	949	19,158
Barnhill	2	5	36	52	900	1,050	0	16,477	2.4	2,014	14	3,544
Bartelso	1	2	22	27	320	320	55	6,749	2.6	1,148	55	4,728
Beaucoup	1	0	3	2	280	367	69	1,243	1.0	16	27	677
Beaucoup S	2	0	8	11	257	257	473	9,784	10.9	465	589	8,330
Beaver Creek	1	1	2	5	60	90	30	425	1.0	40	30	309
Beaver Creek S	2	0	4	15	180	180	150	2,227	8.1	299	150	2,181
Bellair	2	1	106	130	717	747	520	95,296	19.7	2,676	520	42,297
Belle Prairie	1	0	1	8	160	160	60	500	11.0	115	60	500
Beman	1	1	6	9	280	280	57	1,175	1.8	61	57	859
Benton	2	0	105	53	3,390	3,390	1,133	229,439	44.0	21,179	1,398	168,344
Benton N	1	2	30	47	910	1,100	55	8,372	2.4	1,319	55	4,011
Berryville C	1	2	4	6	241	320	105	1,629	6.2	402	50	740
Bone Gap C	2	0	2	12	220	270	171	3,288	13.7	604	174	2,973
Boyd	1	0	7	18	2,133	2,133	270	76,897	8.8	4,320	170	46,799
Brown	1	0	1	3	40	40	30	528	1.7	41	30	470
Browns	3	0	23	26	930	950	210	5,632	28.2	724	160	1,799
Browns E	1	3	31	33	673	1,010	50	5,086	4.4	1,642	43	1,748
Bungay C	7	5	53	91	2,510	2,640	727	43,710	41.1	4,040	737	28,865
Calhoun S	1	0	1	4	80	80	49	226	16.3	146	49	226
Carlyle N	1	0	1	7	80	100	72	1,010	4.4	95	72	433
Carmi	1	0	1	2	60	60	30	300	2.3	78	30	204
Carmi N	1	0	1	4	80	80	18	990	2.0	74	18	750
Centerville	1	1	2	2	40	40	14	416	0.7	17	14	158
Centerville E	4	1	98	99	2,160	2,160	861	37,740	41.4	3,613	861	27,748
Central City	1	0	1	5	60	60	34	339	1.7	26	34	339
Centralia	5	2	218	226	4,704	4,824	2,574	43,937	91.2	12,162	2,016	124,626
Clay City C	103	53	1,130	1,628	64,928	68,465	29,565	767,061	1,331.8	61,073	23,830	457,792
Coil	3	0	9	13	400	400	408	6,246	57.7	1,280	319	2,884
Coil W	1	2	9	13	285	310	110	2,572	12.4	289	69	1,195
Concord C	3	12	62	89	1,733	1,970	115	24,817	10.5	2,559	127	14,002
Concord E C	1	2	8	10	190	190	15	1,415	0.9	115	15	1,222
Cordes	2	0	20	30	1,115	1,115	877	32,443	51.4	6,584	800	35,733
Corinth	1	0	1	4	90	180	77	164	41.1	62	0	0
Dale C	19	36	546	692	21,616	21,831	9,645	394,973	284.4	28,193	11,086	245,557
Deering City	1	0	1	4	50	50	25	504	1.1	119	25	424
Divide C	5	1	23	44	1,535	1,535	2,267	34,223	58.3	1,952	2,015	24,995
Dubois C	5	1	15	49	680	680	248	3,775	18.2	385	248	3,116
Dudley	7	0	12	50	480	460	403	4,071	59.8	867	403	4,071
Edinburg W	1	0	5	20	230	230	3	1,058	7.3	152	3	690
Eldorado C	6	4	42	70	2,120	2,290	2,017	52,454	73.9	4,496	1,261	21,645
Energy	1	0	1	9	130	130	360	947	9.4	77	360	848
Exchange N C	1	0	4	9	280	280	282	2,620	6.0	465	97	949
Exchange W	1	0	2	10	150	150	84	922	10.3	159	35	324
Friendsville N	1	2	6	8	160	160	0	1,002	0.0	248	0	381
Frogtown N	1	0	3	8	140	140	0	0	9.3	74	0	0
Gard's Point	2	0	2	11	220	260	200	1,305	14.4	121	200	1,070
Germantown E	1	0	2	13	300	300	122	4,445	8.5	1,210	122	4,445
Goldengate C	5	13	131	120	4,689	5,010	500	35,012	34.7	2,985	500	14,136
Goldengate N C	2	1	6	7	140	140	99	1,242	5.6	166	50	605
Half Moon	2	0	13	19	1,110	1,360	293	12,676	14.9	926	195	5,309
Harco	2	0	8	16	310	310	315	4,167	14.2	288	300	2,127
Herald C	16	10	110	172	3,661	4,551	1,399	39,821	133.5	4,952	1,144	16,806
Hill E	2	1	5	27	380	380	37	8,377	3.0	502	37	6,292
Hord	1	0	2	3	50	70	10	179	0.2	38	10	113
Ingraham	1	1	10	22	437	692	36	2,675	6.8	837	2	1,549
Inman E C	7	5	202	229	4,380	4,515	539	63,251	38.7	9,960	527	20,222
Inman W C	12	9	113	144	2,729	2,950	1,267	30,209	88.2	3,660	1,063	15,802

TABLE 13. Illinois oil fields having active waterfloods during 1977—continued

Field	Number of active projects	Number of abandoned projects	Wells		Acres in waterflood projects*		Water injection (M bbl)		Oil production (M bbl)		Water production† (M bbl)	
			Water input	Pro-ducers	Subject to injection	Total in production	Total 1977**	Cumulative 12-31-77**	Total 1977**	Cumulative 12-31-77**	Total 1977**	Cumulative 12-31-77**
Iola C	9	3	104	167	3,330	3,450	3,775	60,692	163.2	3,702	2,799	39,739
Irrington	7	0	16	84	1,090	1,130	1,563	23,718	114.0	2,014	1,563	23,163
Irrington E	3	0	4	21	250	250	181	3,400	27.6	542	181	3,400
Iuka	1	0	1	3	270	270	0	0	4.7	97	18	480
Johnson N	2	4	136	140	764	1,045	408	34,375	21.9	2,491	408	22,238
Johnson S	2	2	92	104	1,343	1,343	195	114,556	13.0	3,274	15	33,226
Johnsonville C	6	3	122	149	12,280	12,540	6,345	175,703	213.6	14,578	6,291	112,021
Johnsonville W	2	2	11	19	520	620	395	6,578	16.0	872	307	2,742
Johnston City E	2	0	8	15	260	320	315	3,000	100.2	603	0	0
Johnston City N	1	0	1	4	50	50	3	38	6.3	145	3	38
Junction E	1	0	4	5	100	100	100	795	5.9	57	100	601
Junction N	1	0	1	3	40	70	10	476	0.4	28	10	49
Keensburg S	2	1	9	14	280	450	360	6,476	21.0	568	336	3,612
Kincaid C	1	0	16	30	700	2,500	2,757	5,681	104.6	229	1,378	2,000
King	2	2	8	14	360	360	48	3,563	3.8	398	48	2,075
Lancaster	3	0	27	45	840	1,015	238	7,734	12.7	1,904	238	2,335
Lancaster S	2	0	3	12	150	150	77	830	13.6	152	77	473
Lawrence	57	19	2,421	2,740	27,355	29,345	43,301	936,041	2,617.1	99,292	38,790	658,174
Lawrence W	1	1	12	19	447	447	100	1,471	5.5	207	100	565
Lexington	1	0	2	1	50	280	95	2,562	4.4	65	95	730
Lillyville	1	0	3	6	160	160	110	2,271	6.5	294	80	787
Livingston S	3	0	8	22	310	310	160	2,273	11.5	225	140	1,359
Louden	40	7	1,571	1,730	37,735	38,086	42,873	1,388,136	1,690.8	182,313	41,889	932,803
Main C	42	47	1,534	1,815	23,127	28,771	20,398	899,813	679.9	53,663	18,297	486,984
Maple Grove C	2	3	13	30	720	870	75	2,704	2.3	430	75	2,004
Marine	1	0	3	7	240	964	350	2,154	5.9	31	350	2,086
Mason N	1	0	3	4	130	130	40	2,357	1.8	171	40	2,393
Mattoon	10	9	120	176	3,675	3,715	1,310	63,238	53.6	5,229	1,310	31,558
Mattoon N	1	0	5	8	160	160	40	1,610	2.0	162	40	1,470
Maunie N C	5	6	66	96	1,740	2,510	177	17,338	15.0	2,965	178	9,734
Maunie South C	2	4	69	64	1,444	1,450	500	24,967	42.3	3,214	503	16,918
Miletus	1	0	1	1	20	20	23	269	1.4	15	23	264
Mill Shoals	9	7	65	85	2,402	2,583	1,195	38,834	46.3	2,829	1,136	19,729
Mode	1	0	3	5	330	350	15	511	0.8	335	15	521
Montrose	1	0	1	1	40	40	0	103	0.0	11	0	9
Mt. Carmel	16	16	143	215	4,455	4,722	2,061	50,730	139.6	5,690	1,883	27,973
New Harmony C	74	47	1,007	1,299	27,316	27,977	22,537	488,423	901.6	62,302	12,556	259,236
New Haven C	2	3	22	31	733	950	85	4,045	22.3	1,388	82	978
New Memphis	1	0	3	23	580	640	650	7,385	34.5	359	650	5,065
Oakdale N	1	0	4	7	170	170	119	1,387	6.4	339	119	1,246
Oak Point	1	1	20	14	360	480	78	4,103	3.5	209	78	3,790
Odin	1	0	14	22	230	290	58	8,138	0.3	1,322	37	87
Old Ripley	1	0	10	11	110	110	10	1,228	0.9	95	10	405
Olney C	1	8	33	44	2,238	2,418	74	17,787	2.8	1,586	74	11,079
Omaha	5	2	30	84	1,711	2,178	1,247	22,983	90.4	4,749	660	12,288
Omaha W	1	0	1	7	100	100	155	2,138	10.8	147	155	1,933
Orchardville	2	0	4	6	110	230	55	487	7.1	121	30	90
Orient	1	0	1	3	40	40	60	438	5.5	197	43	159
Oskaloosa	1	1	15	10	596	596	30	2,253	1.3	1,353	30	4,130
Pana	1	0	1	2	40	40	15	15	3.0	3	15	15
Passport	3	0	8	9	505	505	56	14,055	6.0	867	45	7,799
Patoka	3	2	80	88	1,713	1,713	454	88,718	19.7	9,036	454	68,874
Patoka E	3	1	11	33	380	580	729	11,130	42.1	868	625	9,233
Patoka S	3	0	35	46	860	980	475	13,983	36.3	1,490	491	9,425
Phillipstown C	22	15	191	319	5,734	6,941	3,618	56,506	399.8	8,566	2,801	31,941
Phillipstown S	1	0	2	3	60	60	5	595	0.2	145	5	184
Raccoon Lake	1	1	3	8	190	190	341	5,898	7.8	264	378	6,634
Raleigh	1	2	22	19	440	590	75	7,022	3.5	1,282	75	1,711
Raleigh S	3	1	8	10	310	490	302	5,365	20.3	417	260	3,047
Reservoir	2	0	2	5	100	100	43	880	8.1	145	43	880
Richview	5	0	11	34	427	367	1,076	15,922	56.4	1,361	677	8,714
Rochester	3	0	17	23	400	480	499	23,498	4.7	1,521	182	8,153
Roland C	18	13	405	527	11,820	12,940	9,828	190,742	338.9	17,943	6,551	93,001
Ruark	2	0	2	3	96	140	85	913	4.3	148	68	382
Ruark W	1	2	20	19	420	420	176	6,458	6.7	744	211	4,258

TABLE 13. Illinois oil fields having active waterfloods during 1977—continued

Field	Number of active projects	Number of abandoned projects	Wells		Acres in waterflood projects*		Water injection (M bbl)		Oil production (M bbl)		Water production† (M bbl)	
			Water input	Pro-ducers	Subject to injection	Total in production	Total 1977**	Cumulative 12-31-77**	Total 1977**	Cumulative 12-31-77**	Total 1977**	Cumulative 12-31-77**
St. Francisville	1	2	5	7	140	150	0	908	0.0	29	0	318
St. Jacob	3	0	18	24	852	950	704	12,766	26.0	826	566	8,109
St. James	7	1	26	83	1,443	1,753	2,214	34,475	119.7	3,165	2,134	30,176
Ste. Marie	1	3	6	29	760	820	10	4,172	0.5	312	10	859
Sailor Springs C	41	20	215	362	8,965	9,863	6,944	128,902	354.5	17,579	6,297	86,439
Salem C	11	2	348	367	30,862	38,827	101,333	1,939,984	2,502.8	129,695	89,739	375,390
Schnell	1	0	1	1	103	103	1	857	1.0	40	1	326
Sesser C	5	1	28	63	1,410	1,550	805	12,517	60.9	2,093	775	6,766
Shattuc	1	0	5	10	150	150	174	1,174	9.6	161	174	669
Siggins	3	3	588	605	2,797	2,928	1,997	130,518	80.8	16,228	2,465	45,227
Sorento C	1	1	5	5	120	190	9	328	0.6	14	9	142
Staunton W	1	0	2	7	40	40	0	16	0.0	1	0	2
Stewardson	2	0	6	23	270	280	240	4,512	17.0	546	240	4,002
Storms C	16	6	180	189	3,925	4,370	4,252	182,786	221.9	7,659	4,442	117,197
Sumpter E	5	1	23	60	1,185	1,230	631	13,235	33.7	1,051	611	6,286
Sumpter N	2	0	6	10	220	418	214	2,226	13.6	228	142	861
Sumpter S	2	2	14	12	270	310	85	2,200	24.1	260	97	875
Tamaroa	1	0	3	4	180	260	75	2,758	3.4	117	75	2,004
Tamaroa S	1	0	1	4	60	60	55	674	2.4	41	55	674
Thackeray	2	0	12	12	540	540	592	15,331	18.3	1,861	718	10,249
Thompsonville N	1	3	21	21	632	726	54	5,814	14.7	968	0	1,040
Tonti	3	1	18	24	660	710	1,984	18,694	70.0	997	2,600	27,176
Trumbull C	6	0	17	43	780	830	865	9,749	53.8	922	877	4,697
Valier	1	0	1	1	70	70	48	297	2.6	56	48	297
Walpole	2	3	34	35	2,320	2,380	367	27,542	18.0	3,054	227	15,292
Wamac W	3	0	9	20	300	300	454	8,253	25.5	877	353	2,230
West Frankfort C	4	6	27	61	961	1,371	318	10,048	50.8	1,395	134	5,672
Westfield	2	4	80	78	1,160	7,850	315	5,506	12.2	91	80	182
Westfield E	1	0	4	10	60	60	45	488	2.9	51	45	331
Whittington	5	0	21	55	890	890	926	5,370	47.6	446	746	3,694
Wilberton	1	0	18	33	1,000	1,180	285	12,021	32.8	902	285	9,310
Williams C	4	0	7	14	269	322	113	3,863	9.7	716	113	3,081
Woburn C	1	1	2	6	70	180	40	432	2.5	50	40	624
Woodlawn	3	1	7	17	210	270	466	4,892	22.0	792	472	4,593
Zeigler	2	0	7	18	420	420	235	4,251	21.9	2,135	220	1,907

\*Acreage data are incomplete in a few fields.

\*\*Projects not reporting in 1977 are included as of last reporting date.

†Not all projects reported produced water.

TABLE 14. Summary of waterflood statistics, 1949-1977

Year	No. of active projects	Water injection (M bbl)		Reported waterflood oil production (M bbl)		Estimated dump flood production (M bbl)		Total prod. (M bbl)	Waterflood prod. % of total prod.**	No. wells in flood projects		Productive acreage		% of total acreage under flood	Cumulative waterflood oil recovery per acre subjected to injection (bbl)	Cumulative injected water/acre produced oil
		Annual	Cumulative*	Annual	Cumulative*	Annual	Cumulative*			Inj.	Prod.	Subj. to inj.	Total			
1949	33	20,612	50,983	2,511	10,313	1,500	5,000	64,501	6.2	946	1,055	8,450	375,985	2.2	1,230	4.9
1950	63	44,053	99,040	3,107	13,826	1,500	6,500	62,028	7.4	1,097	1,197	14,123	397,685	3.6	979	7.2
1951	84	57,147	148,279	6,672	21,890	1,500	8,000	60,244	13.4	1,620	5,230	17,646	412,050	4.3	1,241	6.8
1952	131	72,951	221,078	8,752	29,000	2,000	12,000	60,071	17.9	2,160	5,114	31,330	425,025	7.4	926	7.6
1953	167	118,409	335,727	10,086	39,800	2,250	14,600	59,025	20.9	2,849	5,298	37,854	434,100	8.7	1,051	8.4
1954	232	176,012	512,202	15,985	55,687	2,129	17,900	67,000	27.0	3,597	6,686	59,027	500,130	11.8	943	9.2
1955	284	224,579	745,573	24,585	81,131	1,978	19,800	81,131	32.7	4,407	7,163	72,832	521,200	14.0	1,114	9.2
1956	333	271,270	1,014,900	29,600	111,700	1,700	21,500	82,314	38.0	5,307	7,687	92,350	539,315	17.1	1,210	9.1
1957	382	295,750	1,310,000	35,442	147,142	1,750	23,250	76,649	48.5	5,734	7,814	112,000	550,305	20.4	1,316	8.9
1958	443	317,153	1,606,500	40,833	187,338	2,040	25,290	80,779	53.1	6,647	8,567	122,500	562,535	21.8	1,529	8.6
1959	499	345,098	1,954,200	41,360	238,512	2,436	27,720	76,727	57.1	7,327	9,306	136,976	574,625	23.8	1,741	8.1
1960	559	376,563	2,324,200	44,789	283,862	1,750	29,470	77,341	60.2	8,062	9,855	152,823	585,045	26.1	1,857	8.2
1961	658	390,093	2,753,361	50,412	334,716	1,270	30,740	77,478	66.7	8,560	10,521	171,825	602,665	28.5	1,948	8.2
1962	717	467,318	3,144,893	49,078	379,977	1,245	31,985	78,796	63.9	8,875	10,660	186,785	612,995	30.5	2,034	8.2
1963	779	438,191	3,631,514	50,092	471,345	902	32,887	74,796	66.9	9,048	11,690	194,900	621,735	31.4	2,616	7.7
1964	848	467,691	4,099,133	47,977	520,886	660	33,547	70,168	69.3	9,731	11,497†	240,163†	629,055	45.4	1,825†	8.7
1965	938	479,347	4,526,211	43,729	531,102	500	34,047	63,708	69.4	10,091	13,651†	292,928†	635,455	46.2	1,810†	8.5
1966	929	505,583	5,281,790	43,319	612,692	200	34,247	61,982	68.3	11,194	13,912†	307,200†	641,165	47.9	1,980†	8.6
1967	896	512,808	5,745,583	43,496	666,239	None	34,247	60,115	71.6	12,893	15,427	338,100	724,600	46.7	1,970	8.6
1968†	880	518,581	6,184,083	41,260	668,907	None	34,247	56,391	73.4	13,107	15,572	347,499	729,400	47.7	1,920	9.2
1969†	882	496,763	6,747,362	37,083	699,808	None	34,247	50,724	73.1	13,326	15,953	369,730	732,429	50.5	1,895	9.6
1970†	855	457,527	7,010,480	30,880	733,045	None	34,247	43,747	70.6	13,498	16,004	372,588	751,855	49.6	1,967	9.6
1971†	869	442,543	7,470,871	27,758	754,602	None	34,247	39,084	71.0	13,873	16,842	388,426	756,265	51.4	1,940	9.9
1972†	873	441,963	7,926,055	25,381	793,442	None	34,247	34,874	72.8	13,610	16,657	389,365	760,555	51.2	2,038	10.0
1973†	863	413,456	8,321,161	21,655	815,650	None	34,247	30,669	70.6	13,797	16,854	392,385	763,925	51.4	2,079	10.2
1974†	862	384,015	8,839,803	19,193.2	843,757	None	34,247	27,553	69.7	13,944	17,145	395,634	769,415	51.4	2,133	10.5
1975†	870	370,472	9,184,065	17,579.9	872,405	None	34,247	26,067	67.4	14,364	17,989	399,823	774,945	51.6	2,182	10.5
1976†	854	376,589	9,420,804	16,607.9	873,310	None	34,247	26,272	62.1	14,585	18,243	405,089	783,065	51.7	2,131	10.8
1977†	862	364,645	9,854,794	15,046.8	898,356	None	34,247	25,608	58.7	14,544	18,575	410,439	789,175	52.0	2,189	11.0

\*Current volume plus previous cumulative does not equal current cumulative because of yearly revisions.

\*\*Waterflood oil includes estimated dump flood production. All other figures exclude dump flood production.

†Includes abandoned acreage with waterfloods and pressure maintenance.

‡Does not include pressure maintenance data.



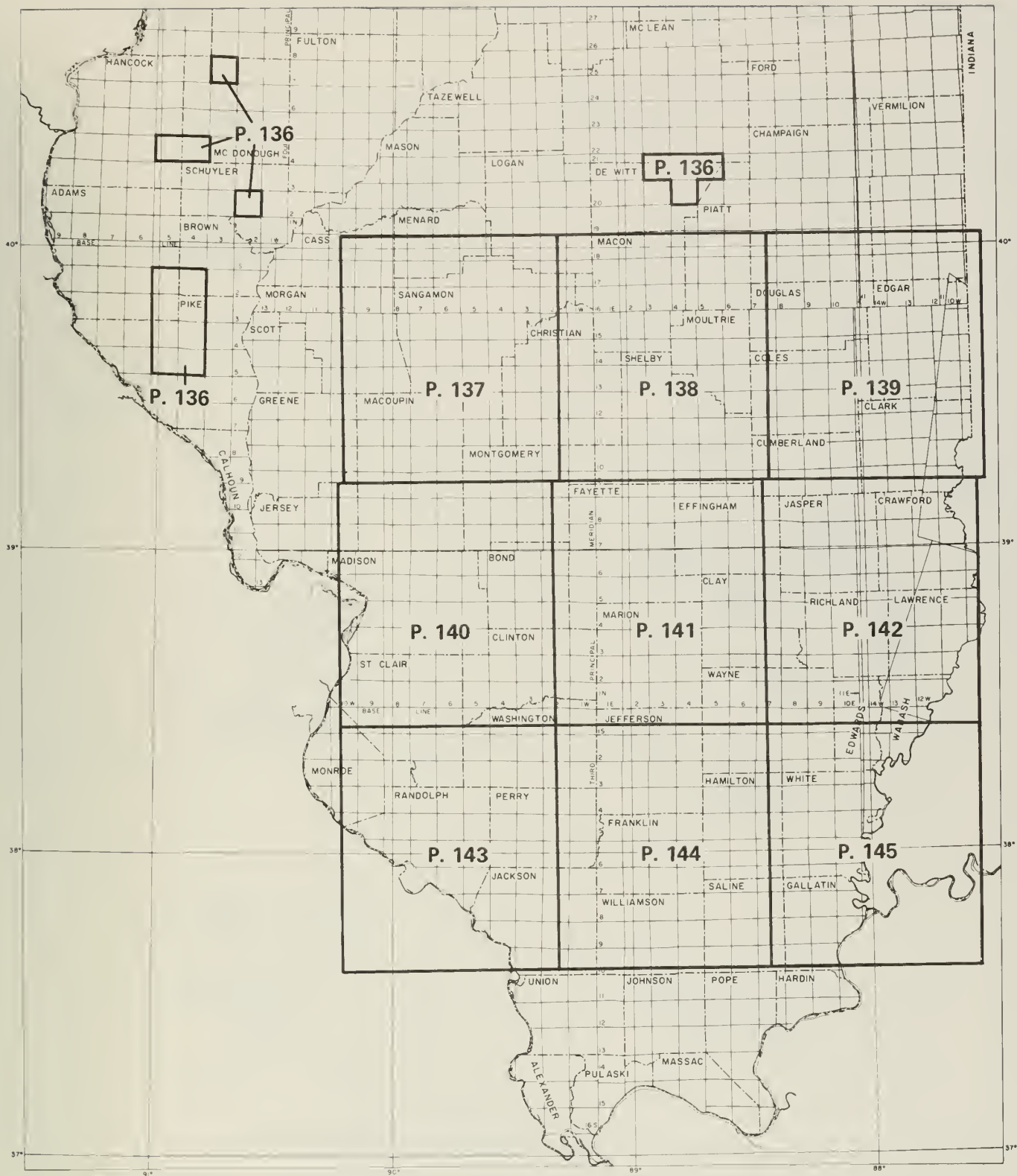
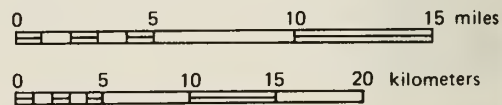
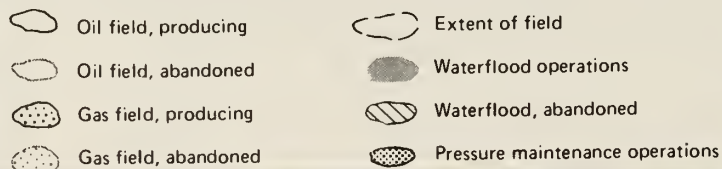
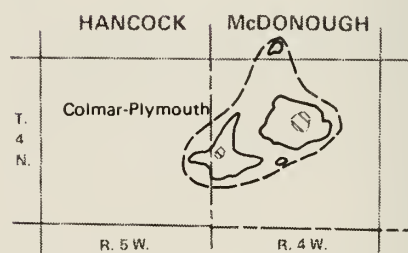
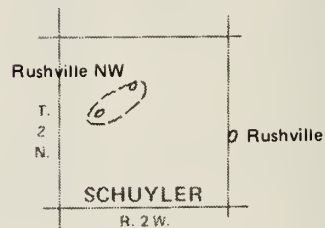
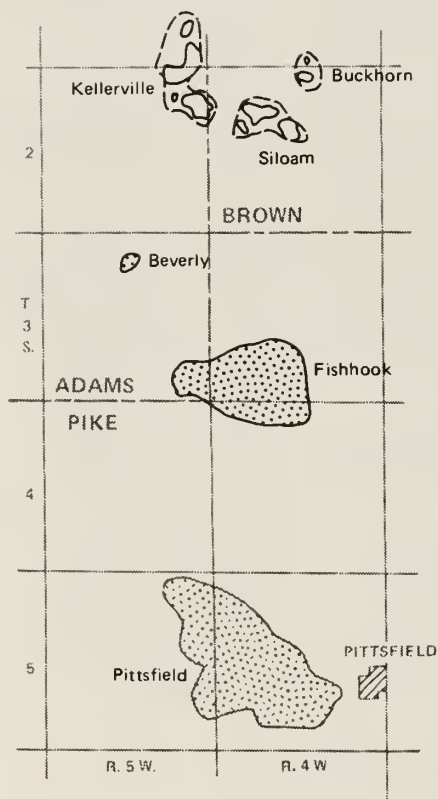
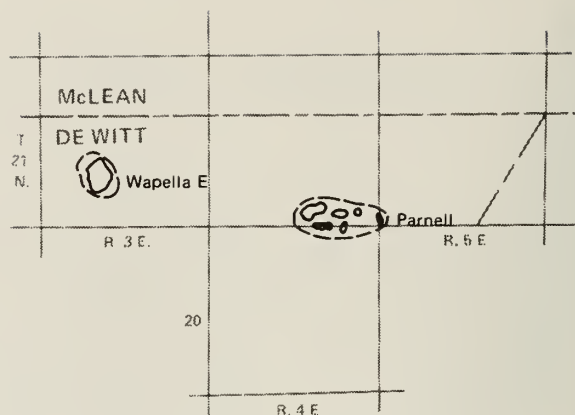
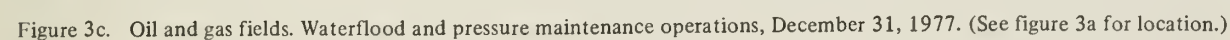


Figure 3a. Index to maps of oil and gas fields, pages 136 to 145.



ISGS 1978

Figure 3b. Oil and gas fields. Waterflood and pressure maintenance operations, December 31, 1977. (See figure 3a for location.)



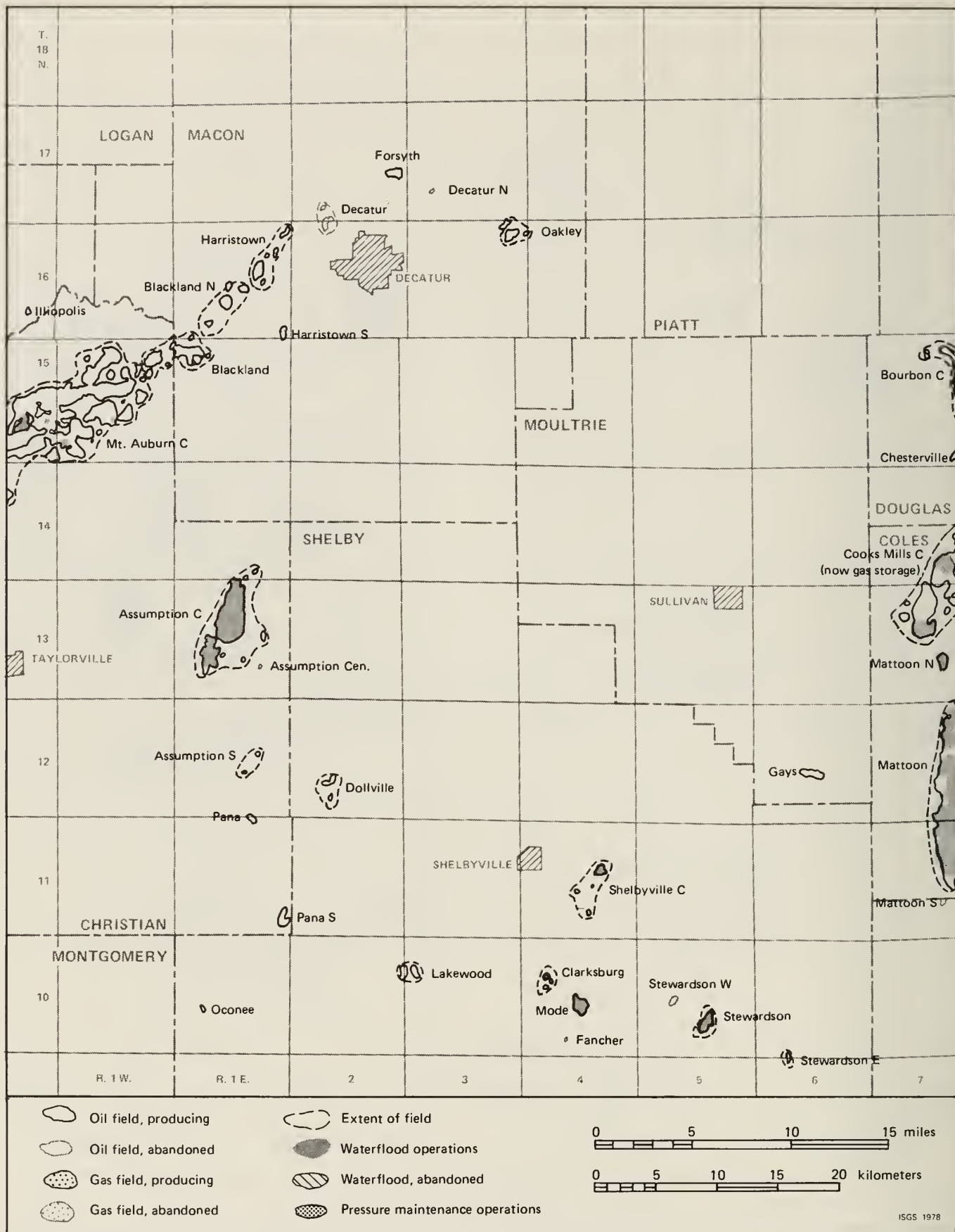


Figure 3d. Oil and gas fields. Waterflood and pressure maintenance operations, December 31, 1977. (See figure 3a for location.)





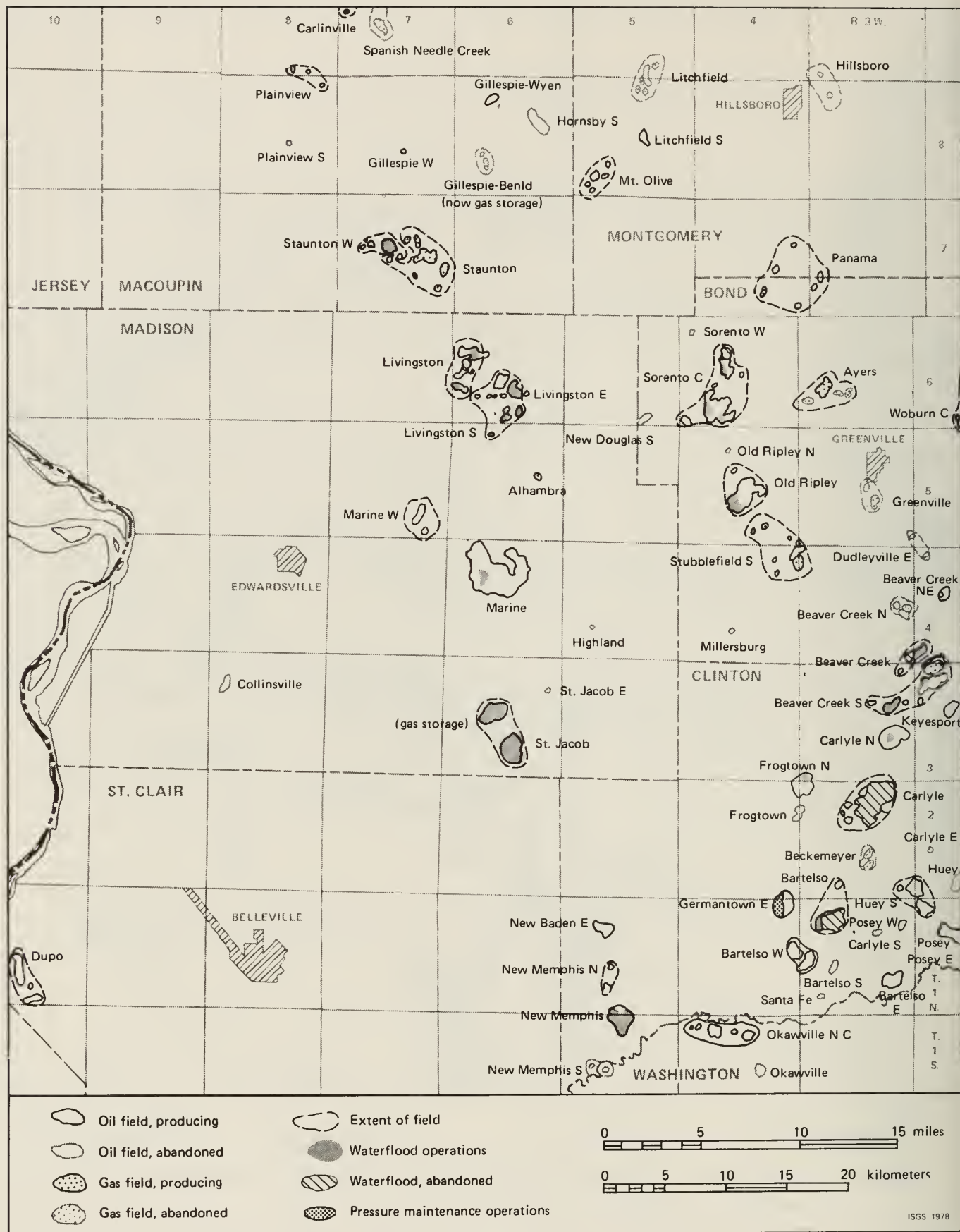


Figure 3f. Oil and gas fields. Waterflood and pressure maintenance operations, December 31, 1977. (See figure 3a for location.)

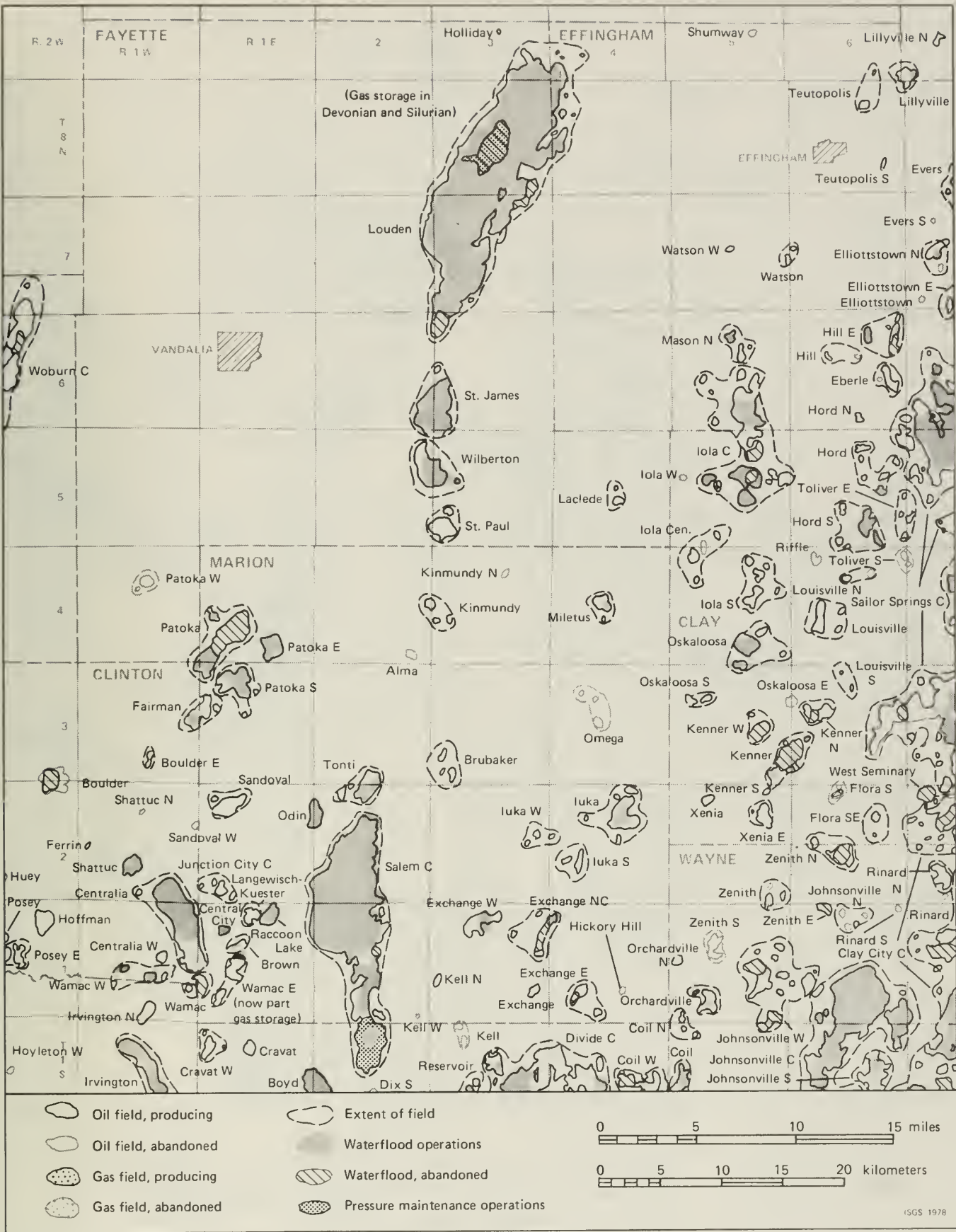


Figure 3g. Oil and gas fields. Waterflood and pressure maintenance operations, December 31, 1977. (See figure 3a for location.)



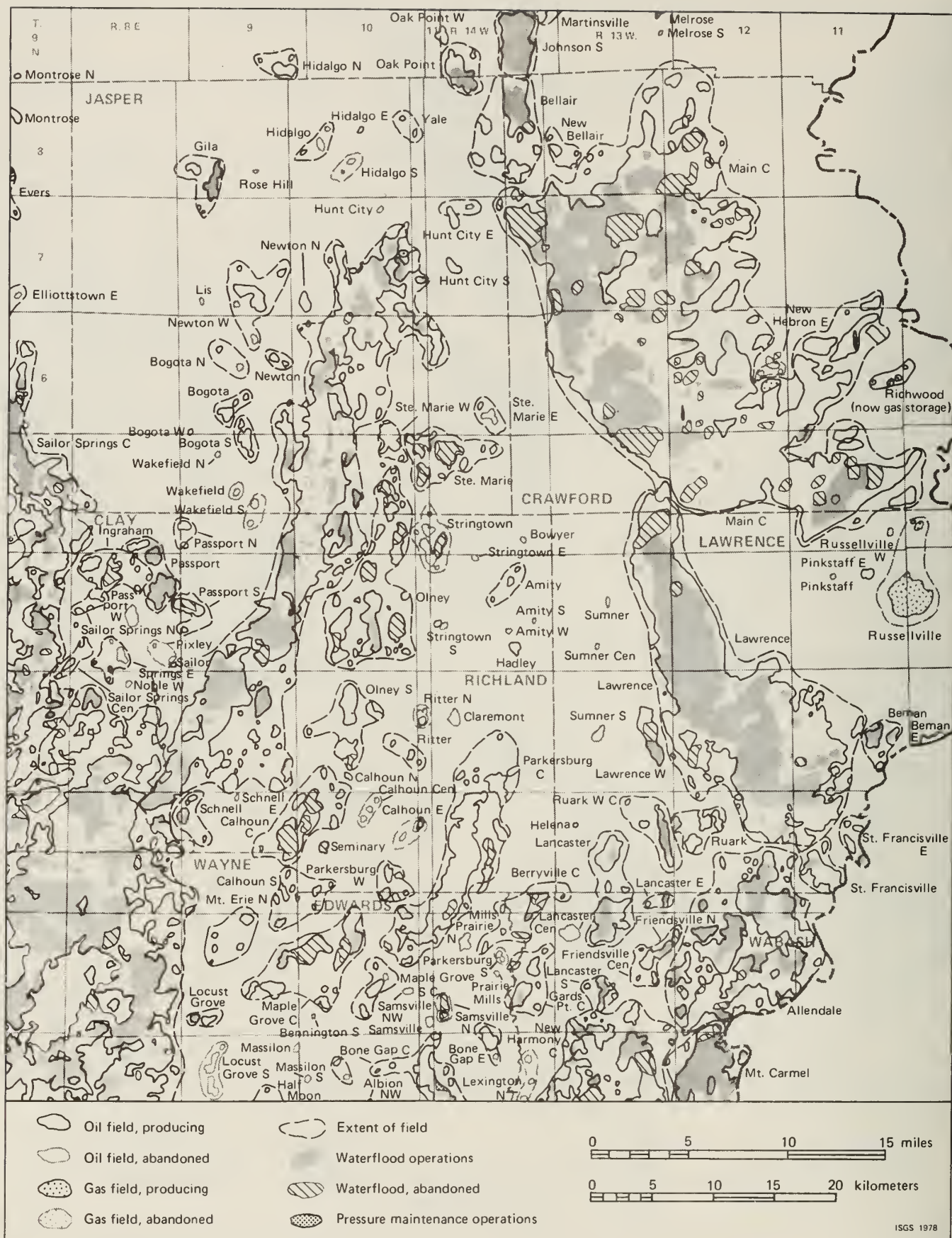


Figure 3h. Oil and gas fields. Waterflood and pressure maintenance operations, December 31, 1977. (See figure 3a for location.)



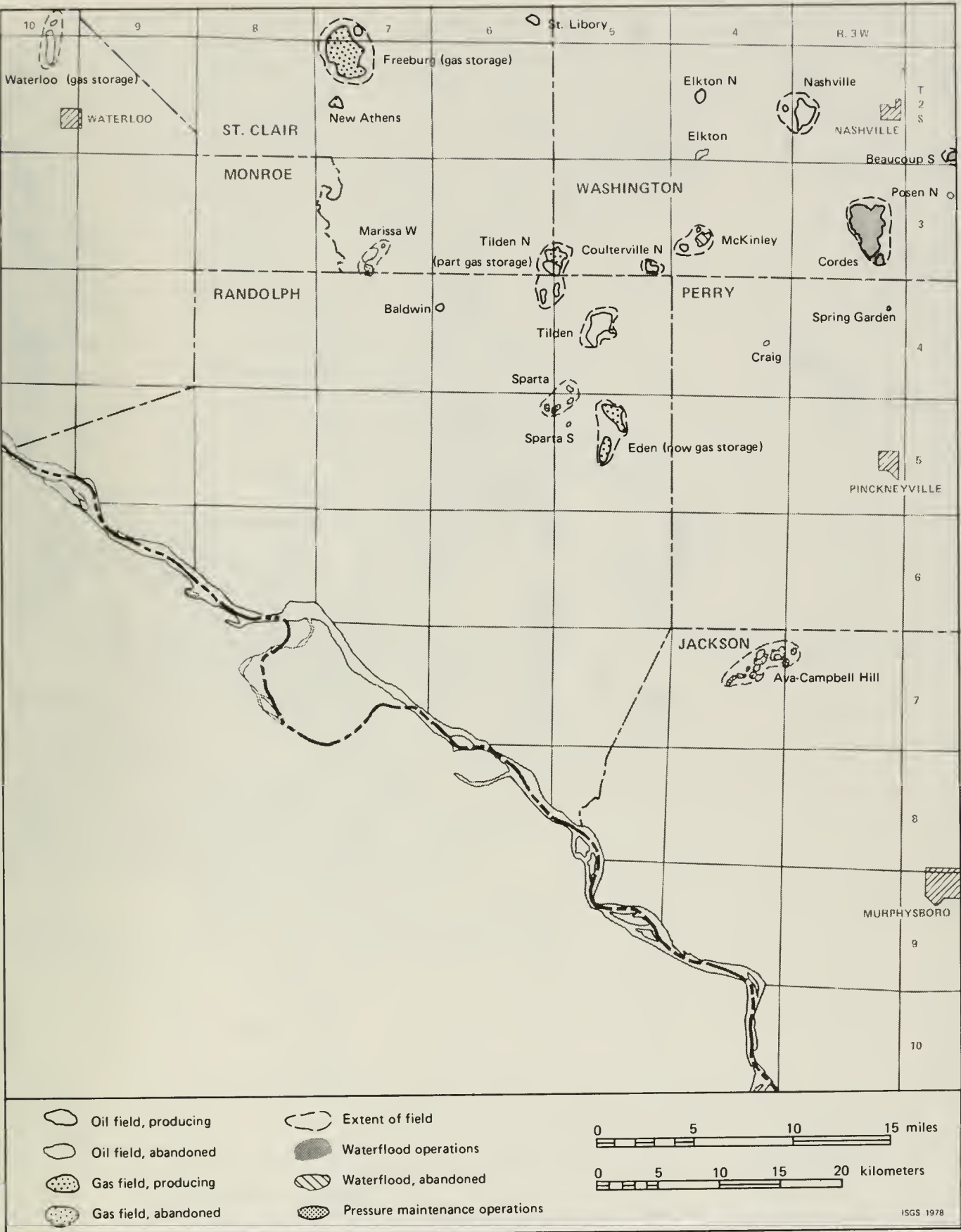


Figure 3i. Oil and gas fields. Waterflood and pressure maintenance operations, December 31, 1977. (See figure 3a for location.)











Petroleum industry in Illinois, 1977. Part I. Oil and gas developments. Part II. Waterflood operations/by Jacob Van Den Berg and T. F. Lawry. Urbana: Illinois State Geological Survey, 1979.

145 p. illus. 28 cm. (Illinois—Geological Survey. Illinois Petroleum 115)

1. Petroleum industry and trade—Illinois. I. Van Den Berg, Jacob.
- II. Lawry, Thomas F. (Series)

